SIEMENS

SISTORE MX NVS
SISTORE RemoteView

Application Software For Network-Based

Video Recording – Configuration Mode

Configuration Manual

V2.80

Building Technologies

Fire Safety & Security Products

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1 Safety

1.1 Target readers

The instructions in this document are designed for the following target readers:

Target readers	Qualification	Activity	Condition of the product
Operational startup personnel	Technical training for electrical installations, video surveillance and network systems and for the product. Training on the product is recommended.	Puts the product into operation for the first time, or changes the existing configuration.	The product is installed but not yet configured, or the existing configuration is to be changed.

1.2 Work safety information

1.2.1 General information

- Read the general safety precautions before configuring the device.
- Please also read the safety precautions for the devices that are operated by the software. Further information on this can be found in the manuals for the respective devices.
- Keep this document for reference.
- Always pass this document on together with the product.

1.2.2 Handling

Damage due to improper handling
- Protect the CD from scratching.
- To clean the CD use a soft dry cloth.

Damage during transport
- Always transport the CD in the case it originally came in.

1.2.3 Setup

Dangerous situation due to false alarm
- Make sure to notify all relevant parties and authorities providing assistance before testing the system.
- To avoid panic, always inform all those present before testing any alarm devices.

1.2.4 Installation

Data loss after software update
- Make sure to backup all data before updating the software.

1.2.5 Storage

Damage due to improper storage

- Always store the CD in its protective case.
- Keep the CD in an environment with a relative humidity of 10 – 90 %.
- Keep the CD between -5 and +55 °C.
- Do not store the CD in excessively dusty places.
- Do not keep the CD close to sources of magnetic radiation.
- Protect the CD from moisture.
- Protect the CD from direct sunlight.

1.3 Meaning of the written warning notices

Signal word	Type of risk
CAUTION	There is a risk of minor injuries or damage to property
IMPORTANT	Malfunctioning may result

1.4 Meaning of the hazard symbols

WARNING **Warning of a hazard area**

WARNING **Warning of dangerous electrical voltage**

2 Details for ordering

Type	Order No.	Designation
SISTORE MX NVS 4	S24245-P5099-A1	Open IP software for 4 IP cameras
SISTORE MX NVS 9	S24245-P5099-A2	Open IP software for 9 IP cameras
SISTORE MX NVS 16	S24245-P5099-A3	Open IP software for 16 IP cameras
SISTORE MX NVS 32	S24245-P5099-A4	Open IP software for 32 IP cameras
SISTORE MX NVS 64	S24245-P5099-A5	Open IP software for 64 IP cameras

Accessories, not included in delivery!

Type	Order No.	Designation
USBOPTO8	2GF4811-8CH	USB input module - 8 channels with optocoupler function
USBREL8	2GF4811-8CG	USB output module - 8 channels with relay function
USBOPTOREL16	2GF4811-8CJ	USB input and output modules with 16 optocoupler inputs and 16 relay outputs
CKA4820	2GF2400-8EC	PTZ control unit with joystick
MX Multi-Channel Box (CDM, POS, Data)	S24245-F5092-A1	For connection of cash dispensers or cash box systems

Note
Further accessories can be found in the Internet: www.buildingtechnologies.siemens.com **> Products & Systems > Electronic Security > Catalogue Downloads**.

3 Package contents

- CD with SISTORE MX NVS application software
- SISTORE MX NVS Configuration Manual and User Manual on CD
- SISTORE MX NVS Installation Manual
- Supplement Getting Started in six languages
- USB dongle for software licence with 4, 9, 16, 32 or 64 LAN cameras

Dongle 4	Operation of 4 LAN cameras
Dongle 9	Operation of 9 LAN cameras
Dongle 16	Operation of 16 LAN cameras
Dongle 32	Operation of 32 LAN cameras
Dongle 64	Operation of 64 LAN cameras

Note
If no USB dongle is installed, the software only runs in demo mode.
In demo mode you can configure and evaluate only one LAN camera.

4 Software description

4.1 SISTORE MX NVS

SISTORE MX NVS consists of a scalable client-server architecture. The SISTORE MX NVS servers and the SISTORE RemoteView clients are distributed in the network and enable the design and configuration of small to large video monitoring systems.

SISTORE MX NVS (server)
Each server supports the administration, recording and playback of up to 64 LAN cameras. For larger systems, multi-server configurations are supported. It is possible to connect LAN cameras from Siemens as well as from third parties to the server. See Section 7.1 General information on LAN cameras.

SISTORE RemoteView (client)
SISTORE RemoteView is a client application which can be installed independent of the other software components. In this version SISTORE RemoteView, SISTORE Player and the Software Codec are installed. Using SISTORE RemoteView, configuration, operation, live image display and evaluation can be performed over the network.

4.1.1 Display mode

Purpose

In display mode, the live images of the connected cameras are displayed and all events that occur, such as camera failure, alarm inputs and malfunctions, are logged.

Fig. 1 SISTORE MX NVS software in display mode

4.1.2 Playback mode

Purpose of playback mode

The recordings can be evaluated in playback mode. The database enables a flexible, precise search for particular events and the related camera images. Access to this mode is regulated based on administrative permission levels and can be additionally controlled using the 4-eyes principle. Camera recording and live image display continue to run in playback mode.

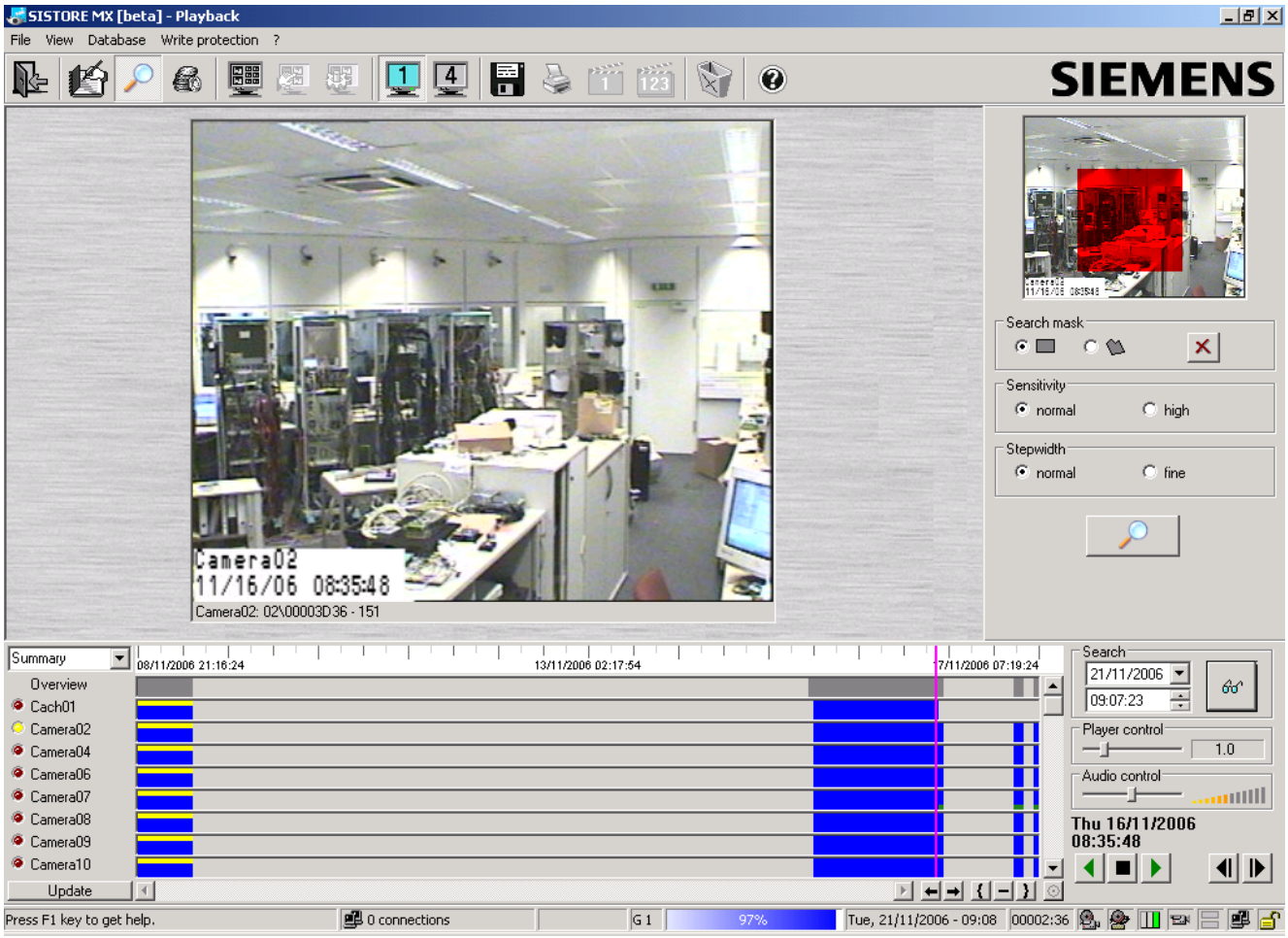


Fig. 2 SISTORE MX NVS software in playback mode

4.1.3 Configuration mode

Purpose of the configuration mode
Configuration mode offers the following functions:
Assignment of user rights, configuration of the digital LAN cameras, of the alarm inputs and all other inputs and outputs
Camera settings for motion detection, alarm contact, output contact, time control, alarm forwarding, transmission, e-mail and SMS
Network parameters such as ISDN or LAN with bandwidth limitation.

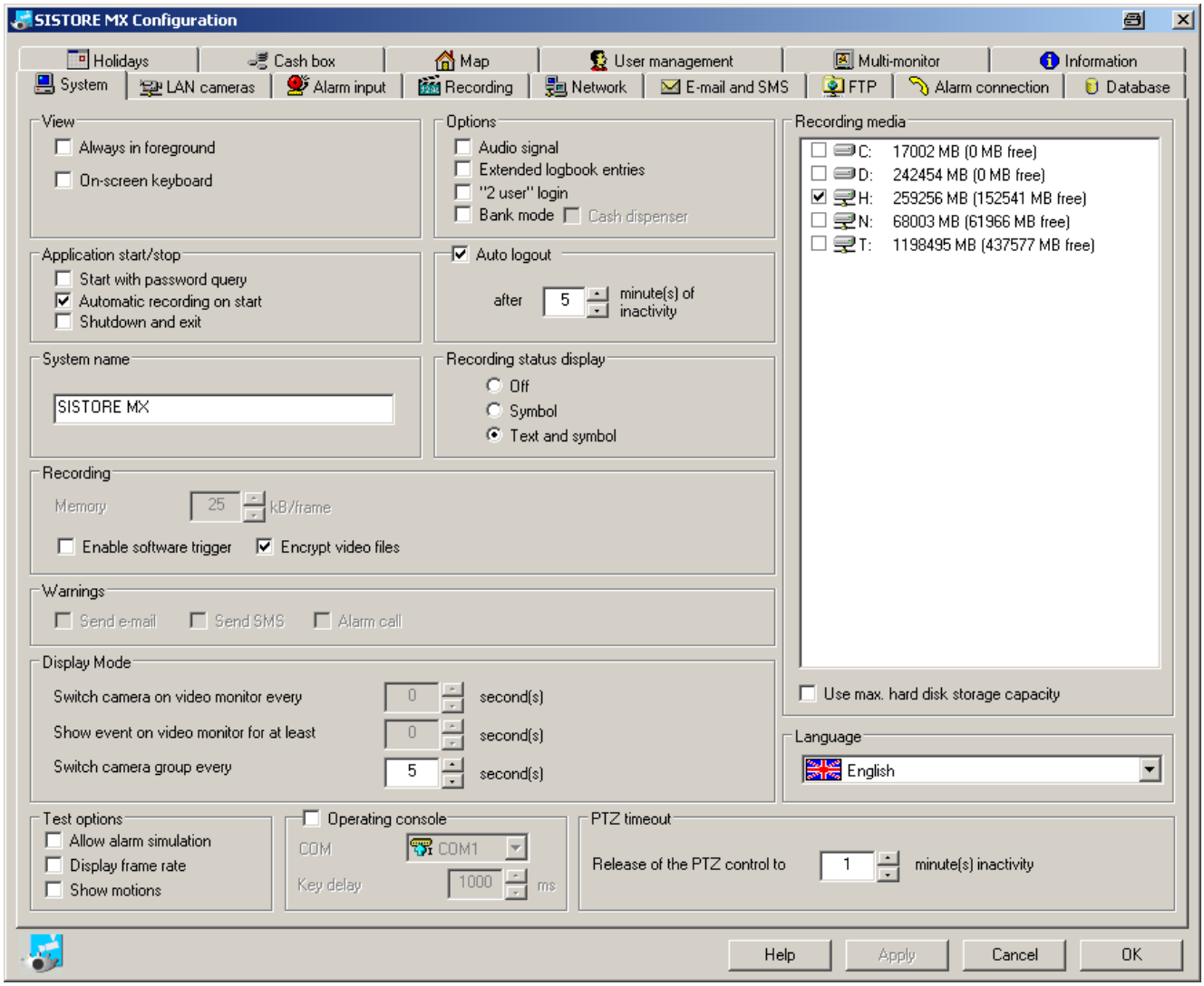


Fig. 3 SISTORE MX NVS software in configuration mode

4.2 SISTORE RemoteView

The SISTORE RemoteView software provides you with the option of convenient remote access evaluation of existing video sequences. SISTORE MX NVS functions as the server with SISTORE RemoteView as the client. This makes evaluation from any location possible if the SISTORE MX NVS system and the PC intended for evaluation are networked. Finally a connection via LAN, DSL or ISDN to the SISTORE MX NVS system is then required.

NOTE:
The time zones of the SISTORE RemoteView and the SISTORE MX NVS server must be set the same, otherwise display errors will occur (such as incorrect time display).

NOTE:
You must have administrative rights to install and run the SISTORE RemoteView software on the PC.

4.3 SISTORE WebView

The SISTORE MX NVS server can be operated not only with SISTORE RemoteView but also using a browser.
Use the following browsers for this:

- Microsoft Internet Explorer 6.x or later

SISTORE MX NVS WebView allows the use of all viewing functions of the video system over the network on a client PC.

SISTORE MX NVS WebView provides the following functions:

- Retrieval and playback of video recordings
- Display of live images
- Bandwidth limitation of the video server
- Password protection, users and passwords are set up on each SISTORE MX NVS server via the user administration.
- Live image display, up to 16 live images in parallel, with random access to cameras connected to various SISTORE MX NVS servers (multi-server access) for logged in users with the user right "Display".
- Playback of saved images, only 1-channel playback.
- Search by date and time
- Playback control: forward, reverse, single image step

As a web solution, SISTORE MX NVS WebView and the MX Video Server are installed on a dedicated server and can be loaded and operated by any number of Windows clients. The prerequisite is that the client be connected to the web server via TCP-IP with Microsoft Internet Explorer and the Java Runtime Environment installed in the versions required.
SISTORE MX NVS WebView can be run in German or English.
From the operating stations, any camera – regardless of the associated station – can be selected. The images are output on the monitors of the client PCs.

NOTE:
As of version 2.60, the SISTORE WebView software is an independent product and has to be ordered separately.

5 Operational setup

Note
Examples of system configurations can be found in Sections 5.4 to 5.12.

5.1 Starting SISTORE MX NVS and logging in

1. Double-click on the desktop shortcut SISTORE MX NVS.

– OR –

Select the directory **SISTORE MX NVS** in the Windows start menu.

- Once the SISTORE MX NVS application software is started you can view alarm pictures without being logged in.
- To perform any functions or to exit the program you have to log in.

2. Click the **Login** button .

➔ The following dialog box opens.

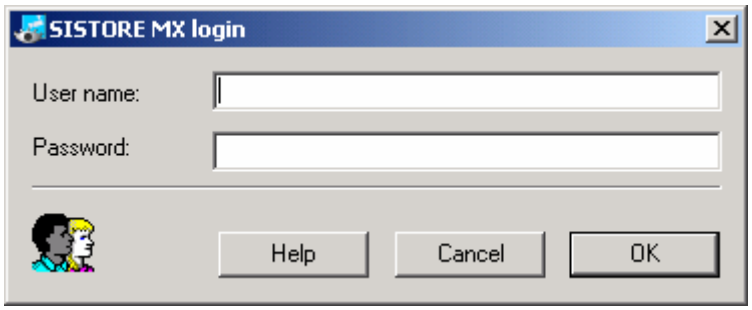


Fig. 4 SISTORE MX Login dialog

The user name and password are predefined. The entry is case-sensitive.

3. Enter "Administrator“ in the **User name** field.
4. Enter "Administrator“ in the **Password** field.
5. Click **OK**.

We advice to change the password after initial start-up. See Section 13.2.1 Creating and changing user accounts.

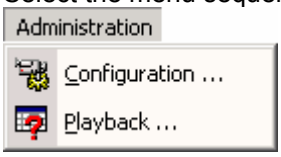
5.2 Opening configuration mode

Prerequisite

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.

Changes can be made in the configuration mode only if no recording is taking place. While recording is in progress you can only view the settings but you cannot make any changes.

1. Click on .
   ➔ Recordings in progress will be stopped.
2. Select the menu sequence **Administration > Configuration…**



➔ The configuration mode will open.

5.3 Selecting other manuals

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in display mode.
  See Section "Display mode", page 13.

Click the icon in the toolbar to access additional manuals.

5.4 SISTORE MX NVS Server PC

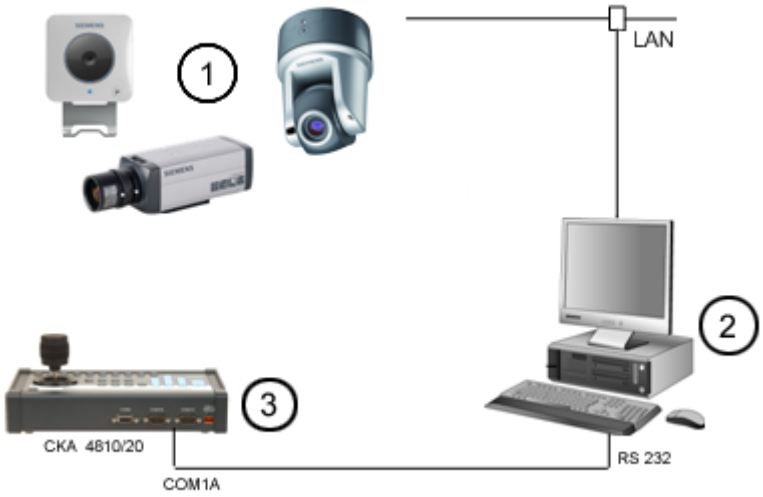


Fig. 5 SISTORE MX NVS system overview

1	Max. 64 LAN cameras or IP domes
2	MX NVS server PC
3	CKA4810/20 (optional)

5.5 SISTORE MX NVS – LAN camera – CKA4810/20

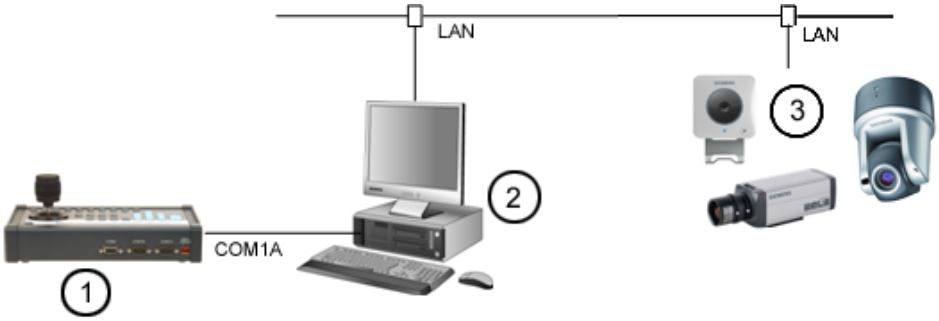


Fig. 6 SISTORE MX NVS – LAN camera – CKA4810/20 system overview

1	CKA4810/20
2	MX NVS server
3	Max. 64 LAN cameras

Prerequisite:

- The CKA driver is installed. Further information on this can be found in the SISTORE MX NVS Installation Manual.

1. Connect the CKA4810 / 4820 control panel (COM1A port) to the MX NVS server (COM1/COM2).
2. Configure COM1A on the control panel as an RS232 interface. For more information please refer to the respective instruction manual for control panel CKA4810 / CKA4820.

3. Start the SISTORE MX NVS software.
4. Switch to configuration mode.
5. Mark the checkbox **Operating console** on the **System** tab.
6. Click **Apply**.
➔ The setting will be saved.
➔ The interface for the control panel is now activated.

Connections

Signal	**MX NVS Server SISTORE RemoteView**	**CKA4810 / CKA4820 9-pin Sub-D connector**
GND	5	5
RXD	3	2
TXD	2	3

Interface configuration CKA4810 / CKA4820

- Protocol: SIMATRIX RS232 or SIEMENS IVM
- Baud rate: 9600
- Parity: none

5.6 SISTORE MX NVS (server) – SISTORE RemoteView (client) – CKA4810/20

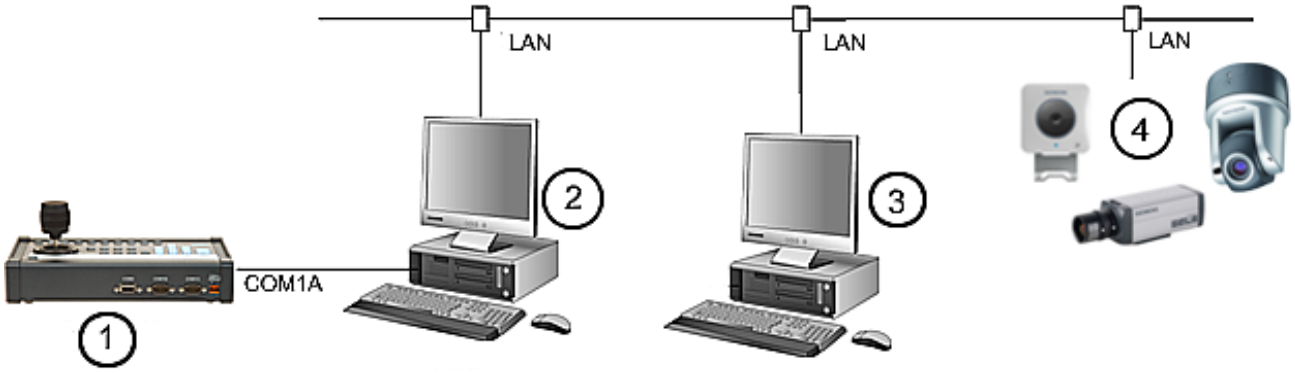


Fig. 7 SISTORE MX NVS – SISTORE RemoteView – CKA4820 system overview

1	CKA4810/20
2	Client PC with RemoteView
3	MX NVS server
4	Max. 64 LAN cameras

Prerequisite:

- The CKA driver is installed. Further information on this can be found in the SISTORE MX NVS Installation Manual.

1. Connect the CKA4810/CKA4820 control panel (COM1A port) to the client PC (COM1/COM2).

2. Configure COM1A on the control panel as an RS232 interface. For more information please refer to the respective instruction manual for control panel CKA4810 / CKA4820.

3. Start the SISTORE RemoteView software.

4. Switch to configuration mode.

5. Mark the checkbox **Operating console** on the **System** tab.

6. Click **Apply**.

➔ The setting will be saved.

➔ The interface for the control panel is now activated.

Connections

Signal	**Client PC SISTORE RemoteView**	**CKA4810 / CKA4820 9-pin Sub-D connector**
GND	5	5
RXD	3	2
TXD	2	3

Interface configuration CKA4810 / CKA4820

- Protocol: SIMATRIX RS232 or SIEMENS IVM
- Baud rate: 9600
- Parity: none

5.7 Multimedia Control Panel – SISTORE MX NVS (server) – SISTORE RemoteView (client)

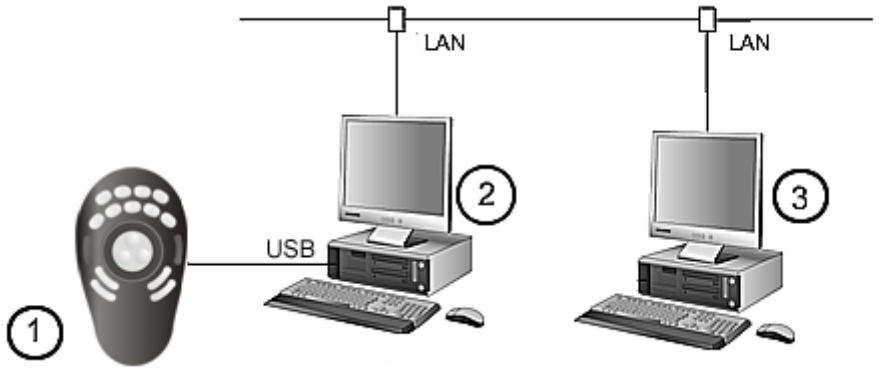


Fig. 8 SISTORE MX RemoteView – Multimedia Control Panel system overview

1	Multimedia Control Panel
2	Client PC with RemoteView
3	MX NVS server

The Multimedia Control Panel (ShuttlePRO2) is not a product of Siemens Building Technologies Fire & Security Products GmbH & Co. oHG. It can be ordered from Contour Design Ltd. (www.contourdesign.com) (product name: ShuttlePRO2).
Siemens Building Technologies Fire & Security Products GmbH & Co. oHG can not guarantee fault-free operation of the Multimedia Control Panels and does not provide any support. In case of problems with the product, please contact the manufacturer (www.contourdesign.com).

Installing the Multimedia control panel

1. Connect the Multimedia Control Panel to a USB port.

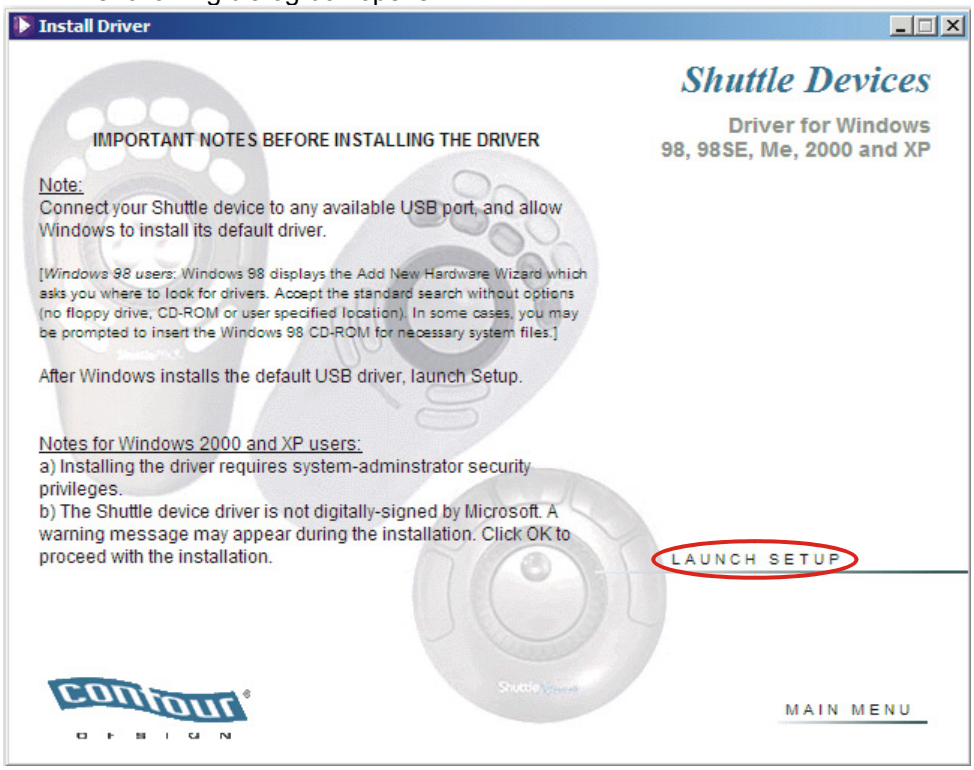
2. Place the CD in the CD/DVD drive.

3. If the CD does not automatically start, double click the file **Autorun.exe**.

➔ The following dialog box opens:

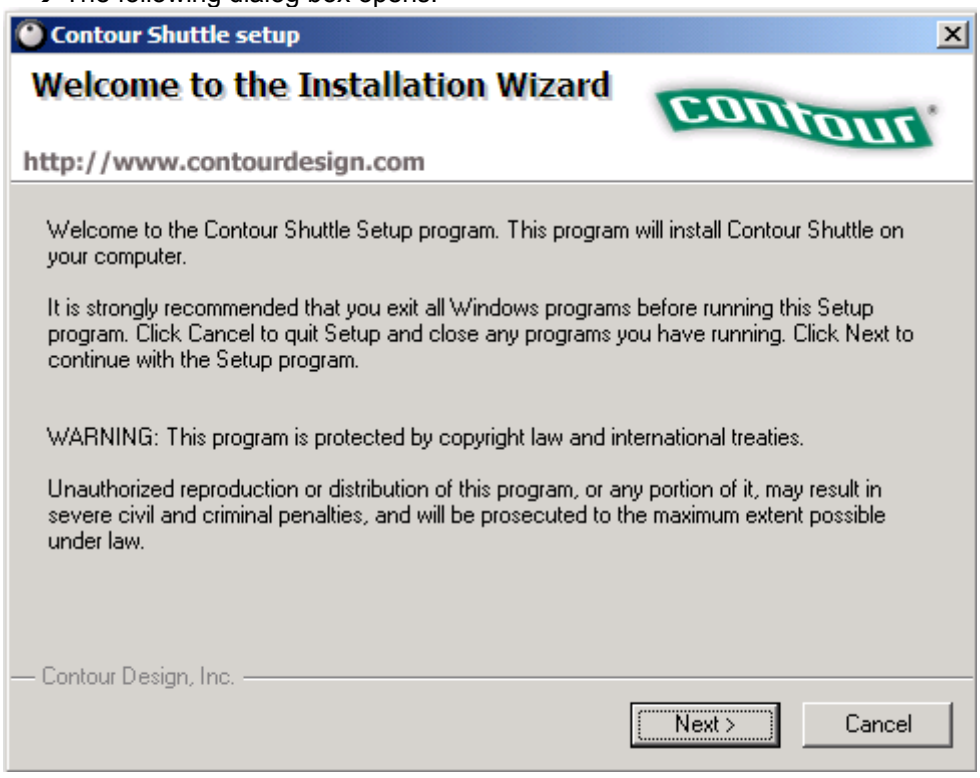
4. Click on **INSTALL DRIVER**.

➔ The following dialog box opens:


Install Driver
Shuttle Devices
Driver for Windows
98, 98SE, Me, 2000 and XP
IMPORTANT NOTES BEFORE INSTALLING THE DRIVER
Note:
Connect your Shuttle device to any available USB port, and allow Windows to install its default driver.
[Windows 98 users: Windows 98 displays the Add New Hardware Wizard which asks you where to look for drivers. Accept the standard search without options (no floppy drive, CD-ROM or user specified location). In some cases, you may be prompted to insert the Windows 98 CD-ROM for necessary system files.]
After Windows installs the default USB driver, launch Setup.
Notes for Windows 2000 and XP users:
a) Installing the driver requires system-adminstrator security privileges.
b) The Shuttle device driver is not digitally-signed by Microsoft. A warning message may appear during the installation. Click OK to proceed with the installation.
LAUNCH SETUP
MAIN MENU

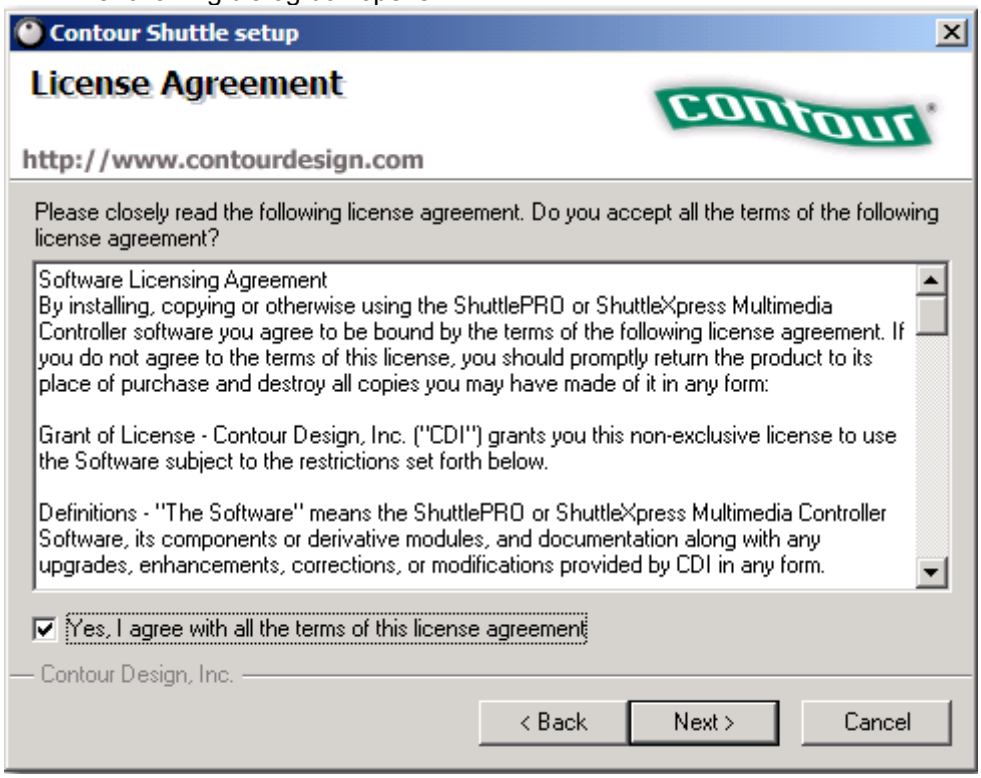
5. Click **LAUNCH SETUP**.

➔ The following dialog box opens:


Contour Shuttle setup
Welcome to the Installation Wizard
http://www.contourdesign.com
Welcome to the Contour Shuttle Setup program. This program will install Contour Shuttle on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program. Click Cancel to quit Setup and close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Contour Design, Inc.
Next >
Cancel

6. Click **Next**.

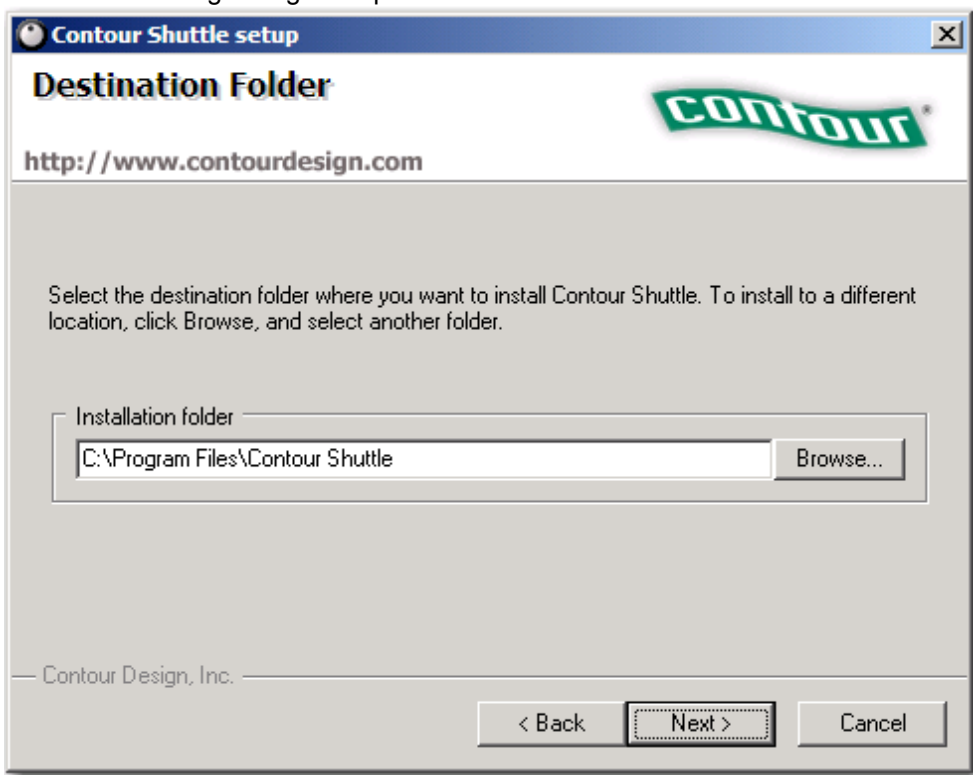
➔ The following dialog box opens:


Contour Shuttle setup
License Agreement
http://www.contourdesign.com
Please closely read the following license agreement. Do you accept all the terms of the following license agreement?
Software Licensing Agreement
By installing, copying or otherwise using the ShuttlePRO or ShuttleXpress Multimedia Controller software you agree to be bound by the terms of the following license agreement. If you do not agree to the terms of this license, you should promptly return the product to its place of purchase and destroy all copies you may have made of it in any form:
Grant of License - Contour Design, Inc. ("CDI") grants you this non-exclusive license to use the Software subject to the restrictions set forth below.
Definitions - "The Software" means the ShuttlePRO or ShuttleXpress Multimedia Controller Software, its components or derivative modules, and documentation along with any upgrades, enhancements, corrections, or modifications provided by CDI in any form.
Yes, I agree with all the terms of this license agreement
Contour Design, Inc.
< Back
Next >
Cancel

7. Mark the checkbox **Yes, I agree with all the terms of this license agreement**.

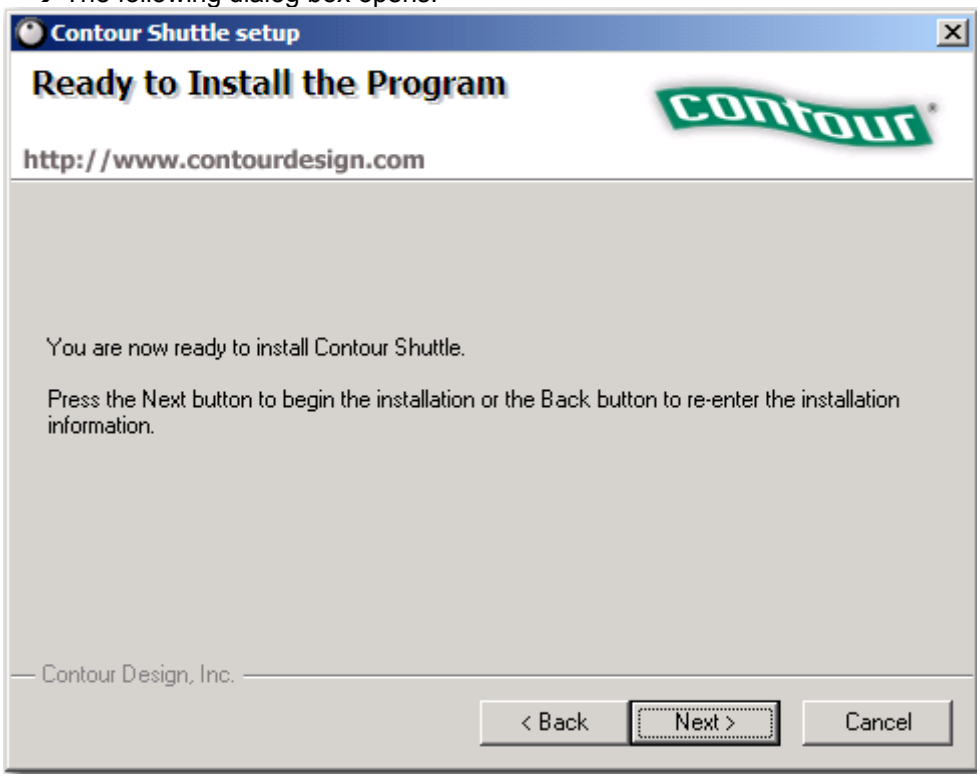
8. Click **Next**.

➔ The following dialog box opens:


Contour Shuttle setup
Destination Folder
http://www.contourdesign.com
Select the destination folder where you want to install Contour Shuttle. To install to a different location, click Browse, and select another folder.
Installation folder
C:\Program Files\Contour Shuttle
Browse...
Contour Design, Inc.
< Back
Next >
Cancel

9. Click **Next** to install the software in the default directory.

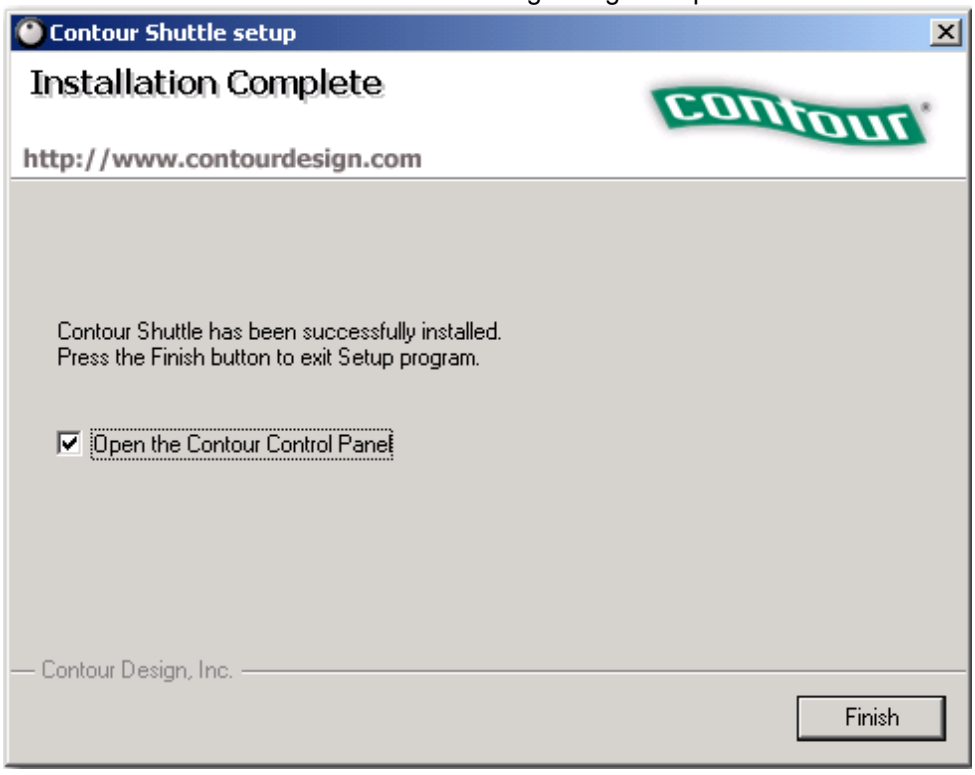
➔ The following dialog box opens:


Contour Shuttle setup
Ready to Install the Program
http://www.contourdesign.com
You are now ready to install Contour Shuttle.
Press the Next button to begin the installation or the Back button to re-enter the installation information.
Contour Design, Inc.
< Back
Next >
Cancel

10. Click **Next**.

➔ The software will be installed.

➔ After successful installation the following dialog box opens:



11. Mark the checkbox **Open the Contour Control Panel**.

12. Click **Finish**.

➔ The software has been installed.

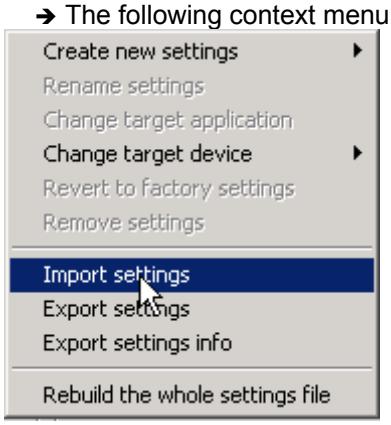
➔ The **Contour Shuttle Device Configuration** dialog box opens (see Fig. 9).

Configuring the Multimedia Control Panel

Fig. 9 Contour Shuttle Device Configuration dialog box

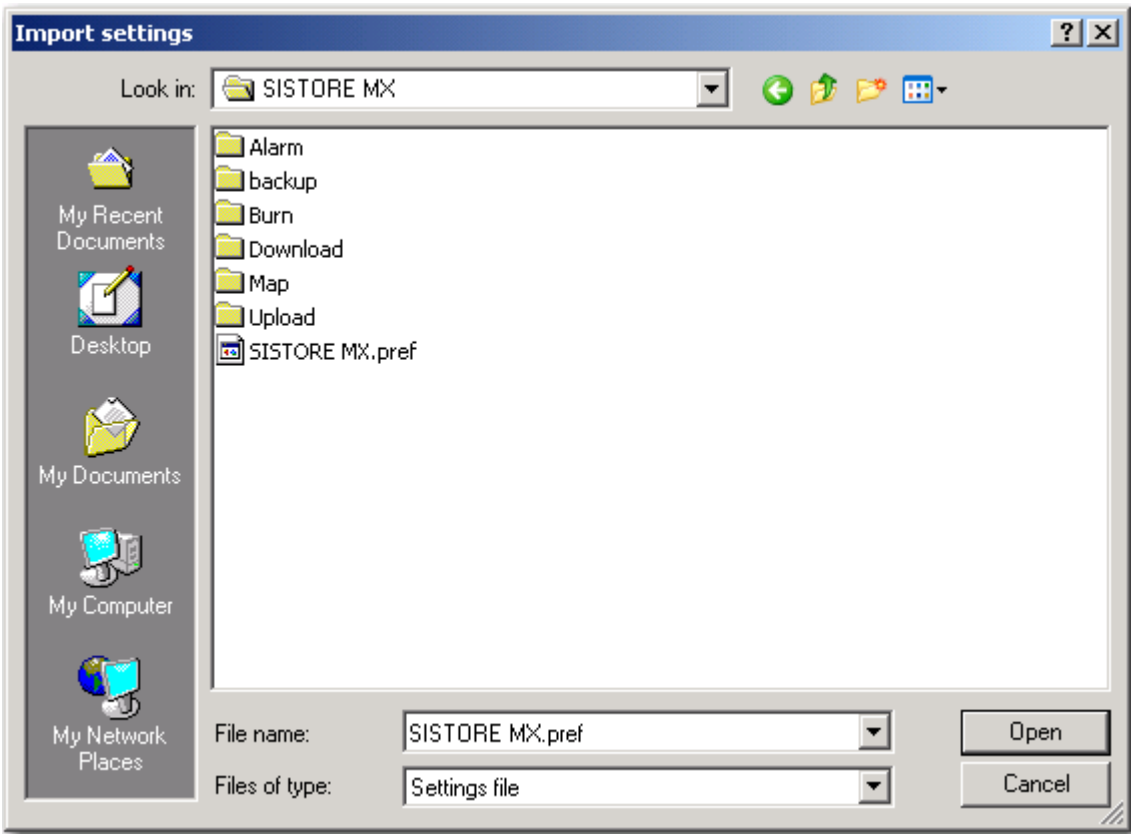
1. Click **Options**.

➔ The following context menu opens:



2. Select **Import settings**.

➔ The following dialog box opens:



3. Navigate to the directory where SISTORE MX NVS is installed.
4. Open the file **SISTORE MX.pref** or **SISTORE MX RemoteView.pref**.
5. Click **Apply**.
6. If you also want to use the Multimedia Control Panel with the SISTORE Player, repeat steps 1 to 5 and import the file **SISTOREPlayer.pref**.
7. Click **OK**.
   ➔ The Multimedia Control Panel is ready for operation.

5.8 Activating alarm connection from Siemens LAN cameras CCIx1345

Prerequisites:

- The Siemens LAN camera is installed. Please also refer to the installation manual for the camera.
- The recording mode for the appropriate LAN trigger input has been configured in SISTORE MX NVS.
- A registry entry for LAN trigger inputs is available. Further information on this can be found in the Configuration Manual.

5.8.1 Matching IP ports

SISTORE MX NVS supports up to 32 LAN trigger inputs (alarm inputs 101 to 132 in the **Alarm input** tab). These inputs can be addressed via the IP-HTTP port 80 and the IP-SMTP port 25.

The IP port of the LAN camera and the IP port of the SISTORE MX NVS application software must be identical.

1. Start the SISTORE MX NVS application software. See Section 5.1 Starting SISTORE MX NVS and logging in.
2. Switch to configuration mode.
3. Select the **Network** tab.

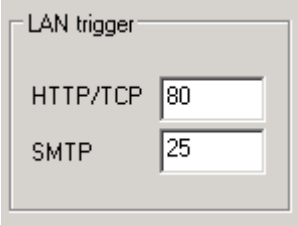


Fig. 10 Network trigger data for Siemens CCIX1345 LAN camera

4. Enter the IP-HTTP/TCP port and the IP-SMTP port of the LAN camera in the **LAN trigger** group field.

5.8.2 Configuring a LAN camera

1. Open the **Internet Explorer**.
2. Enter the IP address of the Siemens LAN camera in the **Address** field of the Internet Explorer.

The default IP address of the Siemens LAN camera can be found on a label on the top of the device. The IP address of the device can be changed subsequently. Please refer to the user manual for the camera.

3. Press the **Enter** key.
4. Answer **Yes** in the **Security alert** which opens.

➔ The following dialog box opens.

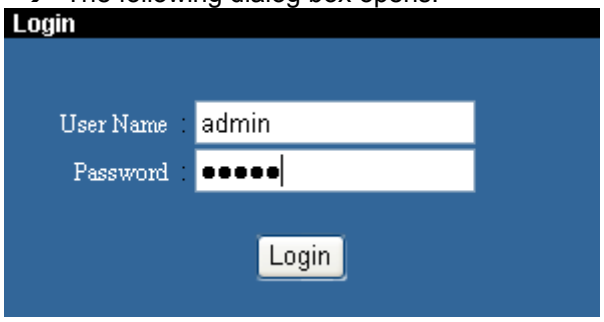


Fig. 11 Camera login dialog

5. Enter **admin** in the **User Name** field.
6. Enter **admin** in the **Password** field.
7. Click **Login**.

➔ The device homepage will be opened.

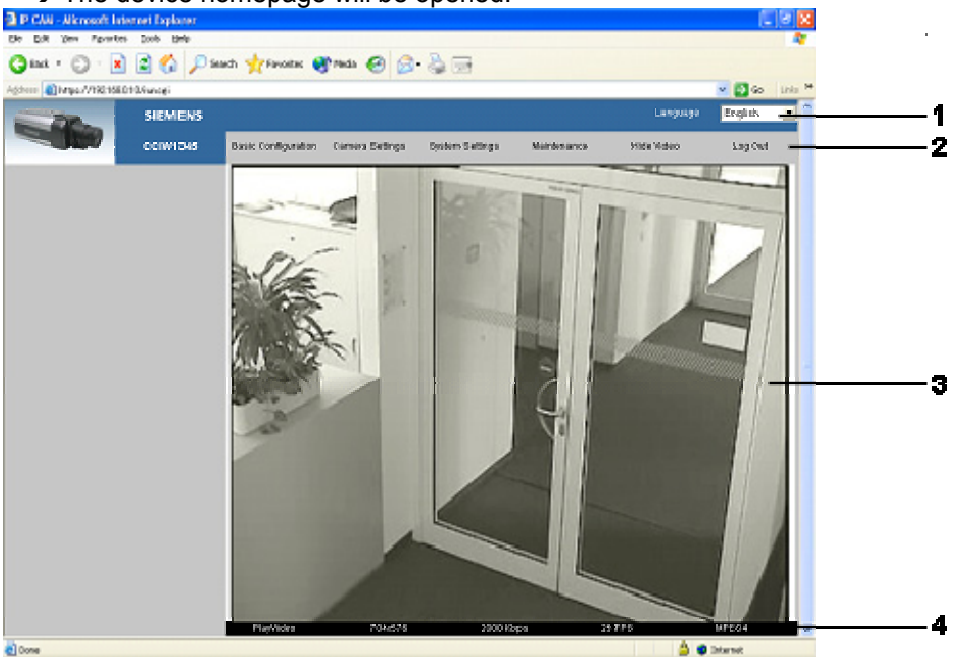


Fig. 12 Device homepage

1	Language selection box
2	Main menus
3	Live image display area
4	Streaming information

8. Select the menu sequence **Basic configuration > Configure alarm**.

➔ The alarm configuration dialog opens.

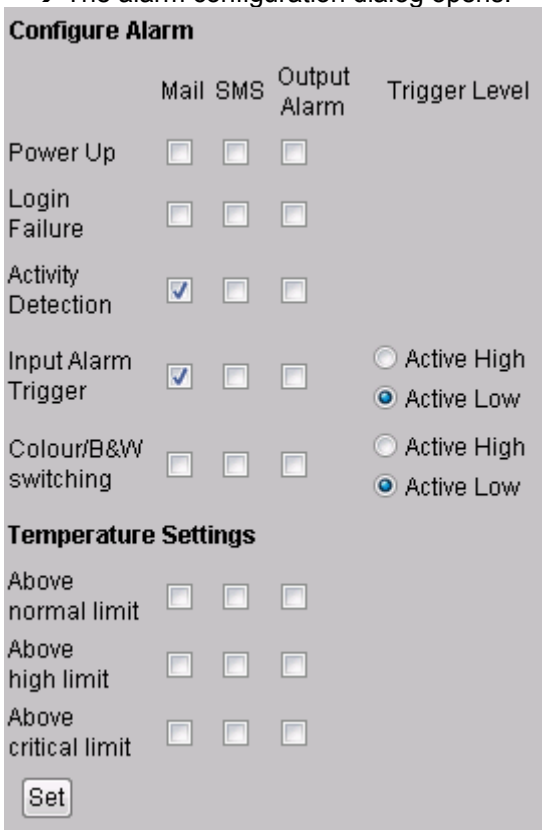


Fig. 13 Alarm configuration

9. Mark the checkbox **Activity Detection** under **Mail** if you want to be notified when a motion is detected by a LAN camera.

10. Mark the checkbox **Input Alarm Trigger** under **Mail** if you want to be notified when an alarm is triggered by a LAN camera.

11. Click **Save**.

➔ The settings have been saved.

12. Select the menu sequence **Basic configuration > E-mail settings**

➔ The E-mail configuration dialog opens:

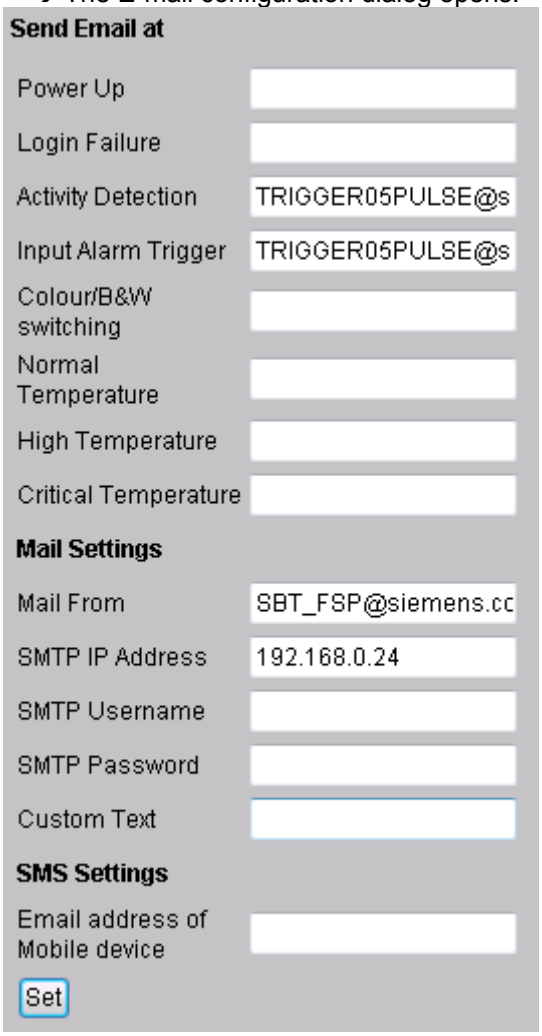


Fig. 14 Email configuration

13. Enter an e-mail address for each of the events (e.g. alarm triggered) you want to be notified of by e-mail in the text fields under **Send Email at** (see Fig. 13 and Fig. 14).

The e-mail addresses must contain the text assigned to the alarm input as defined in the SISTORE MX NVS application software, e.g. TRIGGER[XY]PULSE@c.com. See Section 11 Configuring alarm inputs. [XY] represents the desired LAN trigger input. Enter a figure between 01 and 32 instead of [XY].

14. Enter an e-mail address in the **Mail From** text field.
15. Enter the IP address of the SISTORE MX in the **SMTP IP Address** field.
16. Click **Save**.
➔ The settings have been saved.
17. Click **Log Out** on the device homepage.
➔ The alarm connection is now activated.

5.9 SISTORE MX NVS – SISTORE RemoteView – multi-server mode

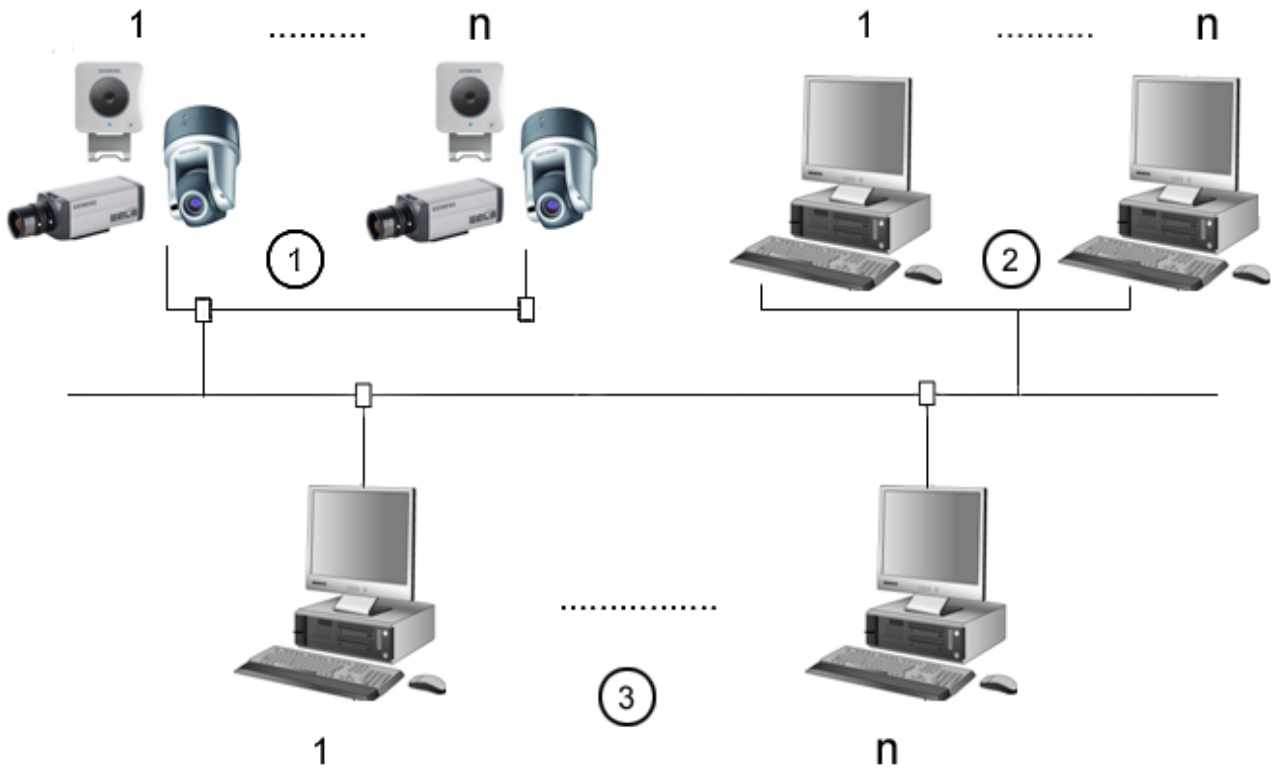


Fig. 15 SISTORE MX NVS – SISTORE RemoteView system overview

1	Max. 64 LAN cameras/IP domes per server
2	Max. 16 client PCs per server
3	Max. 10 MX NVS servers per client

5.10 SISTORE MX NVS – MX Multi Channel Box RCI 0601 and CDM

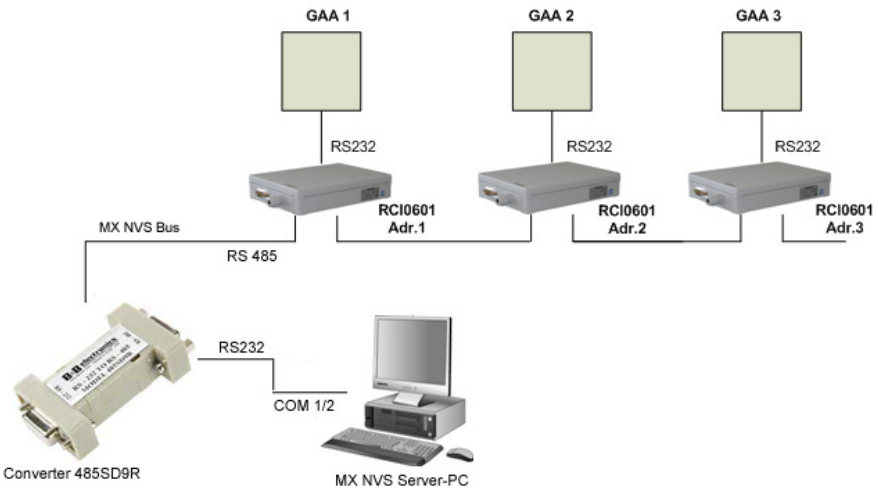


Fig. 16 MX NVS - Multi-Channel Box RCI 0601and CDM system overview

1. Connect the MX Multi-Channel Box to the SISTORE MX NVS server PC (COM1/COM2). For this you require the converter 485SD9R (B&B Electronics).
2. Connect the cash dispensers to the RCI0601. Information on this can be found in the user manual for the MX Multi-Channel Box RCI 0601.
3. Start the SISTORE MX NVS software.
4. Switch to configuration mode.
5. Select the System tab.
6. Mark the checkbox Bank mode.
7. Terminate the SISTORE MX NVS software and restart it.
8. Switch to configuration mode and mark the checkbox **Cash dispenser**.
9. Configure cash dispenser mode. See Section 20 Configuration of cash dispenser mode.
10. Restart the PC.
    ➔ The SISTORE MX NVS software will be restarted (automatically or using the start icon on the PC desktop). The GAA handler module is also started during this process (see task bar).

5.11 SISTORE MX NVS – Miniter interface and Miniter reader

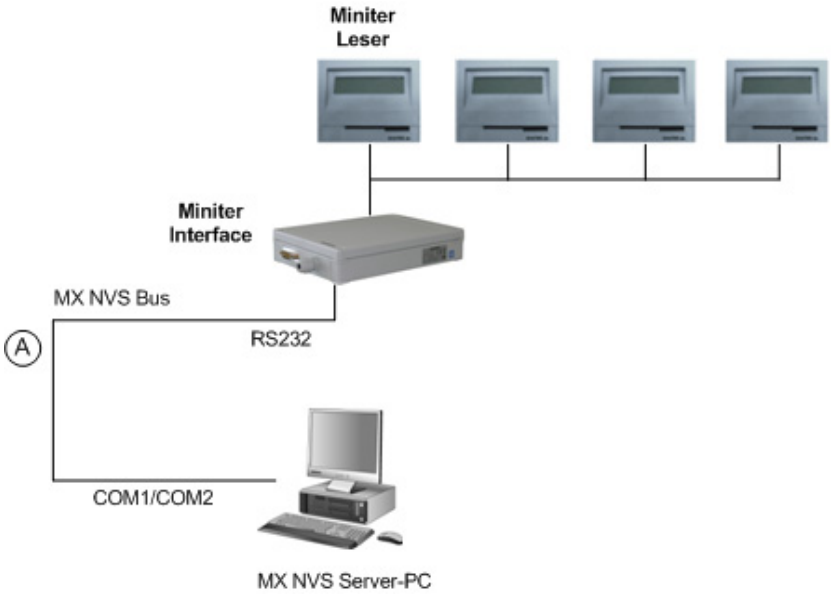


Fig. 17 Miniter interface and Miniter reader system overview

A	Cable (9-pin), plug-socket 1-1

1. Connect the Miniter interface to the SISTORE MX NVS server PC (COM1/COM2). For this you require a 9-pin 1:1 cable with plug and socket.
2. Start the SISTORE MX NVS software.
3. Switch to configuration mode.
4. Select the **System** tab.
5. Mark the checkbox **Bank mode**.
6. Terminate the SISTORE MX NVS software and restart it.
7. Switch to configuration mode and mark the checkbox **Cash dispenser**.
8. Configure cash dispenser mode. See Section 20 Configuration of cash dispenser mode.
9. Restart the PC.
    ➔ The SISTORE MX NVS software will be restarted (automatically or using the start icon on the PC desktop). The GAA handler module is also started during this process (see task bar).

5.12 Connecting SCU pan-and-tilt unit via controller

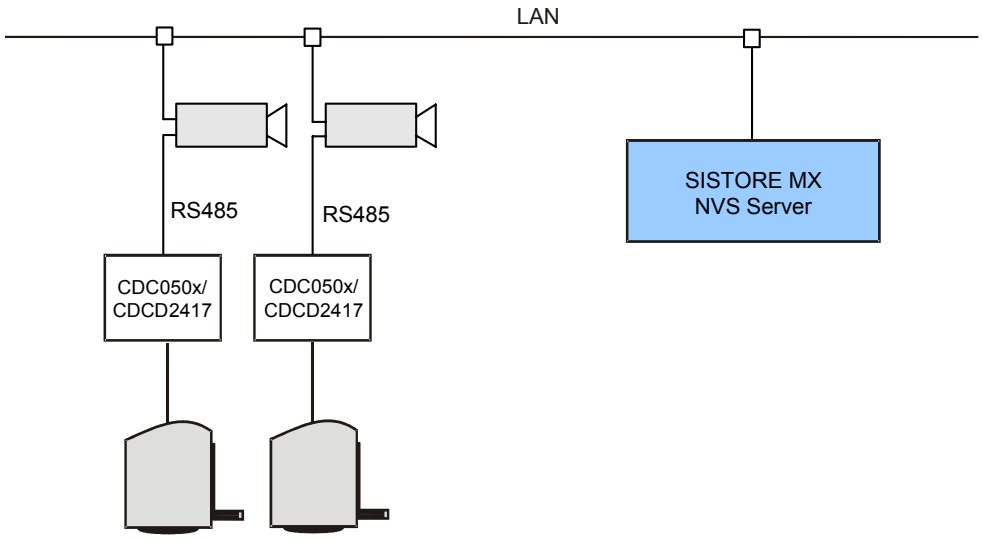


Fig. 18 Controller CDC050x/CDCD2417 system overview

1. Connect the PT40P pan-and-tilt units via controller CDC050x or CDCD2417 to the RS485 ports of the LAN cameras (see Fig. 18).
2. Further information on this can be found in the product documentation for the pan-and-tilt unit.

Connections

Signal	LAN camera	CDC0502	CDC0501	CDCD2417	PT40P
A (Rx/Tx +)	RS485 +	Rx/Tx +	Rx/Tx -	Terminal 1 (Data +)	Data +
B (Rx/Tx -)	RS485 -	Rx/Tx -	Rx/Tx -	Terminal 2 (Data -)	Data -

CDCD2417 interface configuration

- Baud rate: 9600
- Parity: Odd
- Data bits: 8
- STOP bit: 1

6 Network configuration

6.1 Entering the system name

The system name is used primarily for identification of the system during remote access. Enter the location of the system, for example.

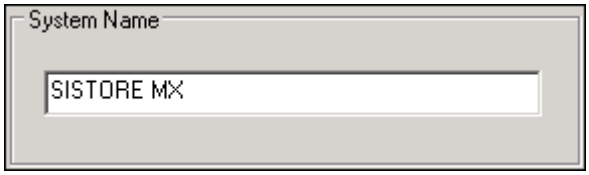


Fig. 19 The System Name text field on the System tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Enter the desired designation in the **System Name** text field (see Fig. 19, page 34).
3. Click **Apply**.
   ➔ The setting will be saved.

6.2 Configuring the network connection

NOTE:
If you operate the SISTORE MX NVS software or SISTORE RemoteView behind a firewall and want to access via a network, open all ports in the firewall that are used by the software.

All users logged in to the SISTORE MX NVS software (locally or via SISTORE RemoteView) can simultaneously view live images or recordings and alarm outputs.
All connections between the SISTORE MX NVS software and users logged in via SISTORE RemoteView will be terminated automatically when the following events occur:

- The configuration of the SISTORE MX NVS software is overwritten.
- Configuration mode is started in the SISTORE MX NVS software.

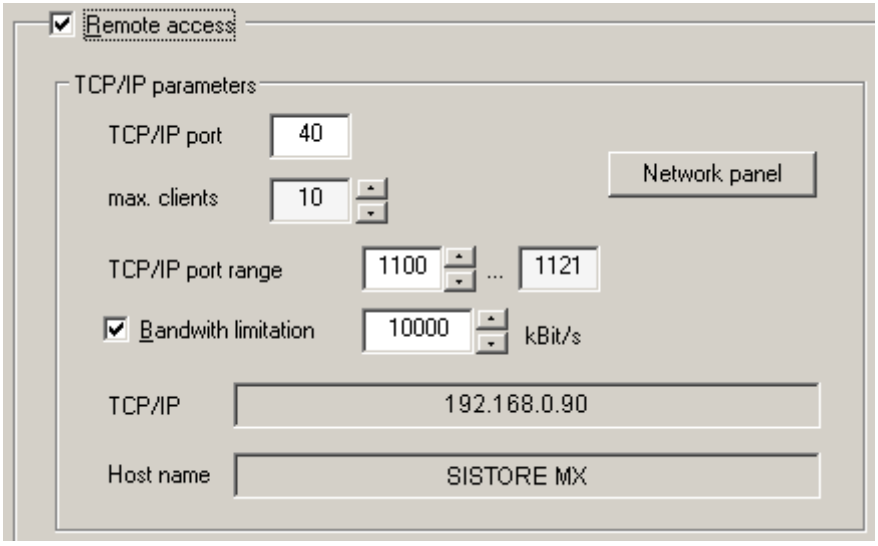


Fig. 20 TCP/IP parameters group on the Network tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.
2. Mark the checkbox **Allow network access** (see Fig. 20, page 35).
   ➔ The TCP/IP parameters group will be activated.
3. Confirm the message that follows with **OK**.
4. In the **TCP/IP Port** field, enter the number of the port to be used by the SISTORE RemoteView clients for connecting to the SISTORE MX NVS software.
5. In the **Max. clients** field, select the maximum number of SISTORE RemoteView clients that are permitted to connect simultaneously to the SISTORE MX NVS software.
6. Enter the initial value of the TCP/IP port range in the field for **TCP/IP port range**.
   ➔ The end value of the TCP/IP port range is determined automatically. It depends on the **max. clients** value: two ports are needed for each client.
7. Click **OK**.

8. Answer **Yes** in the confirmation dialog.
➔ Your settings will be saved. The SISTORE MX NVS software will close.

6.3 Limiting bandwidth

NOTE:
A limitation of bandwidth may result in the SISTORE RemoteView clients reacting very slowly.

Fig. 21 Bandwidth limitation checkbox on the Network tab

Prerequisites
- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.
2. Mark the checkbox **Bandwidth limitation** (see Fig. 21, page 36).
3. In the **kBit/s** text field, enter the maximum bandwidth that the SISTORE MX NVS software is to use for a connection to a SISTORE RemoteView client.
4. Click **Apply**.
➔ The setting will be saved.

6.4 Configuring ISDN dial-in

NOTE:
Use the ISDN modem AVM FRITZ! USB v2.0.
We cannot guarantee proper function with other ISDN modems that have not been tested by us.

The SISTORE MX NVS software and SISTORE RemoteView are **not downward compatible** as of version 2.2.
The SISTORE MX NVS software reacts only to ISDN calls with the service indicator for **data**. Thus SISTORE RemoteView or the SISTORE MX NVS software can be operated on an ISDN connection in parallel to ISDN devices with other service indicators.

6.4.1 Accept all incoming calls

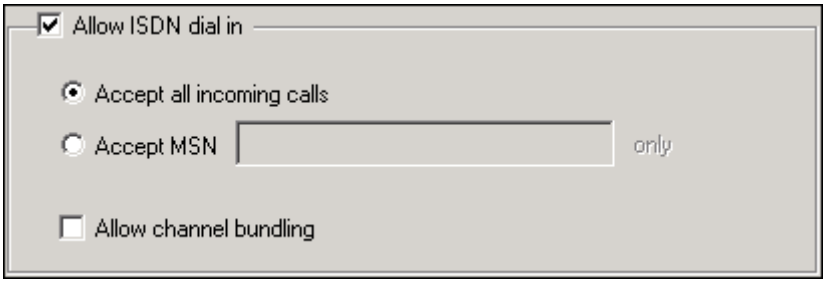


Fig. 22 Accept all incoming calls option field

Prerequisites

- The network has been set up in the operating system and is ready for use.
- An ISDN modem is connected to the SISTORE MX NVS server.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.
2. Mark the checkbox **Allow ISDN dial in** (see Fig. 22, page 37).
3. Click the option field **Accept all incoming calls**.
4. Click **Apply**.
➔ Your settings will be saved.

6.4.2 React to certain multiple subscriber numbers

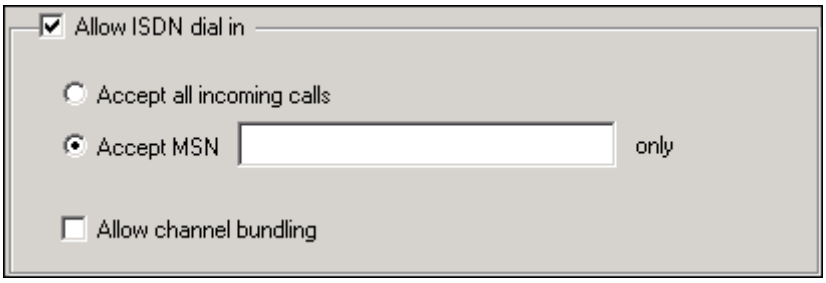


Fig. 23 Accept MSN option field on the Network tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- An ISDN modem is connected to the SISTORE MX NVS server.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.
2. Mark the checkbox **Allow ISDN dial in** (see Fig. 23, page 37).
3. Click the option **Accept MSN ... only**.
4. Enter the desired multiple subscriber number in the **Accept MSN … only** text field.
5. Click **Apply**.
➔ Your settings will be saved.

6.4.3 Activating channel bundling

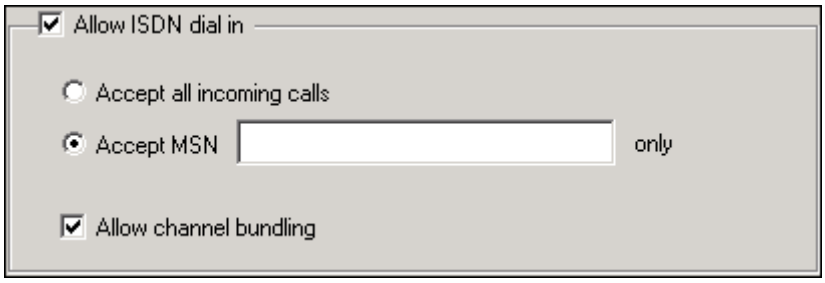


Fig. 24 Allow channel bundling checkbox on the Network tab

Prerequisites

- An ISDN modem is connected to the SISTORE MX NVS server.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- Allow ISDN dial-in is configured.
  See Section "Accept all incoming calls", page 37 and Section "React to certain multiple subscriber numbers", page 37 for further information.

1. Select the **Network** tab.
2. Mark the checkbox **Allow channel bundling** (see Fig. 24, page 38).
3. Click **Apply**.
➔ The setting will be saved.

6.5 Configuring the image server

With SISTORE WebView you can access the live images and recordings of one or more SISTORE MX NVS servers. To do so, enter an IP address and port number in the SISTORE MX NVS software.

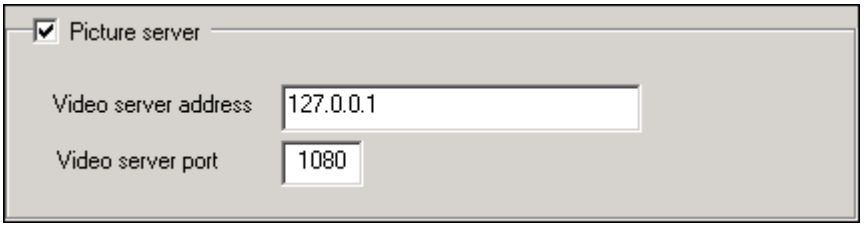


Fig. 25 Image server on the Network tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.
2. Mark the checkbox **Picture server** (see Fig. 25, page 39).
3. Enter the IP address of the image server in the **Video server address** text field.
   – OR –
   If the SISTORE MX NVS server itself is to be used as the image server, enter "Localhost“ in the **Video server address** text field.
4. Enter the port number of the image server in the **Video server port** text field.
5. Click **Apply**.
   ➔ Your settings will be saved.

6.6 Controlling network access

6.6.1 Adding a connection filter

NOTE:
Please note when setting up filters for multiple subscriber numbers (MSNs) that these are communicated differently depending on the telephone system. The formulation of a filter must match the transmission method of your telephone system.

You can refuse certain telephone numbers and IP addresses network access to the SISTORE MX NVS software. To do this set up an appropriate connection filter in the Reject incoming calls list field. Wildcards (*) can be used to group IP addresses or telephone numbers.
In order to make an exception for a telephone number or IP address in a group of banned telephone numbers or IP addresses, add a connection filter for it to Allow incoming calls.

Example: In the list field Reject incoming calls set up the connection filter 127.* and in the list field Allow incoming calls set up the connection filter 127.0.0.99.

NOTE:
IP addresses or telephone numbers for which a connection is refused receive **no information** or no error message.

Result:

➔ None of the IP addresses beginning with 127. are allowed to access the SISTORE MX NVS software except the IP address 127.0.0.99.

Allow connection

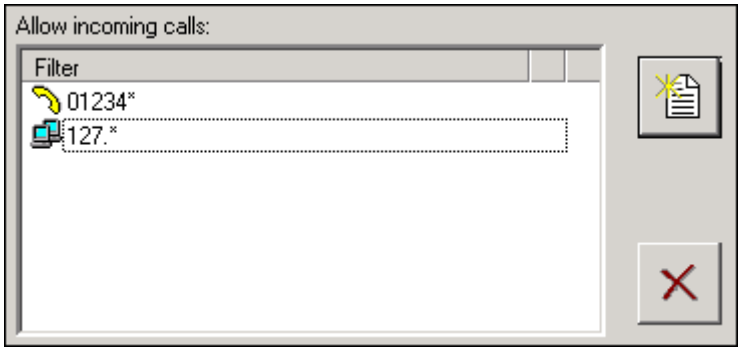


Fig. 26 Allow incoming calls filter list on the Network tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.
2. Click the **Add** button next to the filter list **Allow incoming calls** (see Fig. 26, page 40).
   ➔ A new text field will be created in the **Allow incoming calls** filter list.
3. Enter the telephone number or IP address that you want to allow in the new text field.
   ➔ Repeat steps 2 and 3 as often as required if you want to create multiple connection filters.
4. Click **Apply**.
   ➔ The setting will be saved.

Reject connection

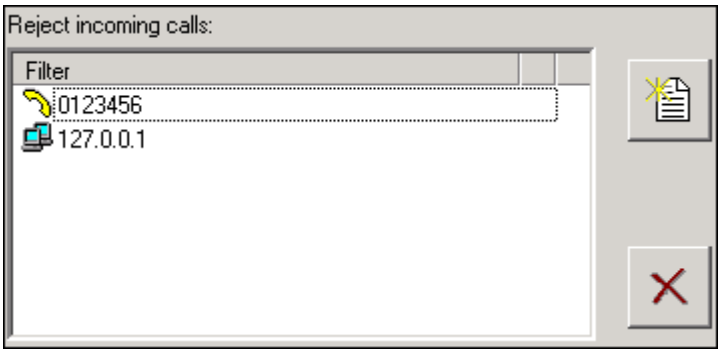


Fig. 27 Reject incoming calls filter list on the Network tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.

2. Click the **Add** button next to the filter list **Reject incoming calls**.
➔ A new text field will be created in the **Reject incoming calls** filter list.

3. Enter the telephone number or IP address that you want to block in the new text field.
➔ Repeat steps 3 and 4 as often as required if you want to create multiple connection filters.

4. Click **Apply**.
➔ The setting will be saved.

6.6.2 Editing connection filters

Fig. 28 The Filter text field on the Network tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.

2. Click on the connection filter you want to edit.
➔ The affected text field will be framed (see Fig. 28, page 41).

3. Edit the connection filter.

4. Click **Apply**.
➔ The setting will be saved.

6.6.3 Deleting connection filters

Deleting an individual connection filter

Fig. 29 Connection filter on the Network tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.
2. Click on the connection filter you want to delete.
   ➔ A **Delete** button will be displayed on the right of the connection filter (see Fig. 29, page 42).
3. Click the **Delete** button.
   ➔ The selected connection filter will be removed from the filter list.
4. Click **Apply**.
   ➔ The setting will be saved.

Deleting all connection filters

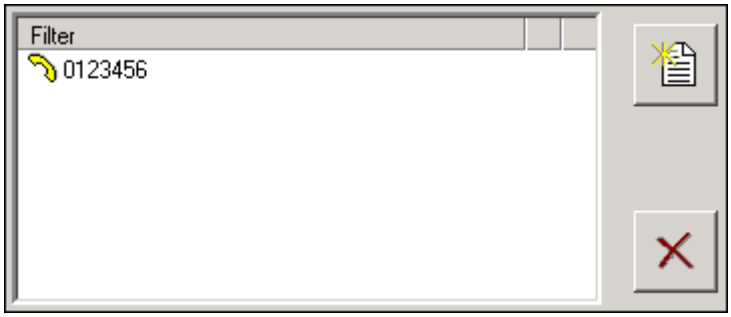


Fig. 30 Filter list on the Network tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Network** tab.
2. Click the **Delete** button next to the filter list for which you want to delete the filters.
3. Confirm the message that follows with **OK**.
4. If you no longer want to use connection filters: Unmark the checkbox **Filter incoming calls**.
5. Click **Apply**.
   ➔ The setting will be saved.

6.7 Setting the LAN connection speed

Prerequisite:

- The SISTORE MX NVS server is connected to the network.

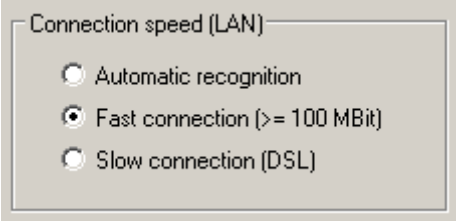


Fig. 31 "Connection speed (LAN)“ group field

We recommend not to select **Automatic recognition**.

1. Select the **Network** tab.
2. Select whether you want to use a fast (≥ 100 MBit) or a slow (< 100 MBit) connection in the **Connection speed (LAN)** group field.
3. If you do not know the connection speed, select **Automatic recognition**.
   ➔ The speed will be recognized automatically.
4. Click **Apply**.
   ➔ The settings will be saved.

6.8 Setting the maximum live image resolution

In order to reduce the CPU load of the server and the network load when transmitting pictures captured by megapixel LAN cameras from the server to the client, the max. resolution of the pictures to be transmitted can be defined.

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software has been started (see Section 5.1 Starting SISTORE MX NVS and logging in).
- The SISTORE MX NVS application software is in the configuration mode (see Section "Opening configuration mode", page 18).

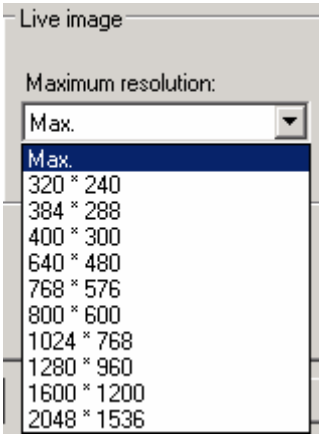


Fig. 32 Live image group field

1. Select the **Network** tab.
2. Select the desired max. resolution in the **Live image** group field (see Fig. 32).

Note
If the option **Max**. is selected, the images will always be transmitted with the highest resolution.

3. Click **Apply**.
➔ The settings will be saved.

7 Configuring LAN cameras

7.1 General information on LAN cameras

Be aware of the following when using LAN cameras:

- Multiple users can access LAN cameras simultaneously. Simultaneous access by multiple users lowers the frame rate.
- Settings made by a user on a LAN camera, such as modifying the image parameters via a browser, have system-wide effects.

SISTORE MX NVS supports the following LAN cameras:

Arecont	Vision 1300, Vision 2100, Vision 3100, Vision 3130 Day, Vision 3130 Night
Axis	205, 206/W, 206M, 207MW, 209FD, 210, 211, 211M, 212 PTZ, 213 PTZ, 215 PTZ, 216FD, 216MFD, 221, 223M, 225FD, 231D+, 232D+, 233D, 240Q, 241Q, 241S, Generic HTTP Interface V1.0, VAPIX Interface
CBC	MP2A, MP3DN Day, MP3DN Night
Convision	VISTABOX 6XX
Dallmeier	DF3000 IP
Digilan	TV7214
Eneo	ENC-1003L
IQ invision	IQ501, IQ510, IQ511, IQ603, IQ 752, IQ753, IQ755
JVC	VN-C10U; VN-C30U, VN-C625U, VN-C655U
Lumenera	LE175C, LE275C, LE375C
Mobotix	D12 one or two cameras, M1 Models, M10 Models, M10D-Night, M12 Models, M12D-Night, M22M
Panasonic	KX-HCM-280, WV-NF284, WV-NM100/G, WV-NP1000, WV-NP244E, WV-NP472, WV-NS202, WV-NS320, WV-NW470, WV-NW960
Pixord	205
Samsung	SNC-L200
Siemens	CCIC1410, CCIS1337-LP, CCIX1345, CFVA-IP, CVVA-IP, CFMC1315 LP, CCID1410, CCMC1315 LP, TELSCAN WEB Server
Sony	Generic HTTP interface, SNC-CS11, SNC-CS3P, SNC-DF40P, SNC-M1/W, SNC-M3/W, SNC-P1, SNC-P5, SNC-RZ25P, SNC-RZ30P/2, SNC-RZ50P, SNC-Z20P, SNT-V704
Toshiba	IK-WB21A
VINWP1	2051
Vivotek	MJPEG Models, PZ6122, VS2402, IP7138

Depending on the functional scope of the LAN camera, many operating elements of the **LAN cameras** tab may be disabled.
Altogether a maximum of 64 LAN cameras can be connected.
Access to LAN cameras takes place with greater **latency**. The reason for this is the greater communication load between the SISTORE MX NVS and a LAN camera. Besides the LAN cameras, the network also has an effect on the latency.
The operation of the system can be slow if all connections for LAN cameras (64) are used.
Exact specifications for the image quality and the required hard drive capacity are not possible with LAN cameras, since each LAN camera has different quality levels and interprets specifications differently.

7.2 Adding a LAN camera

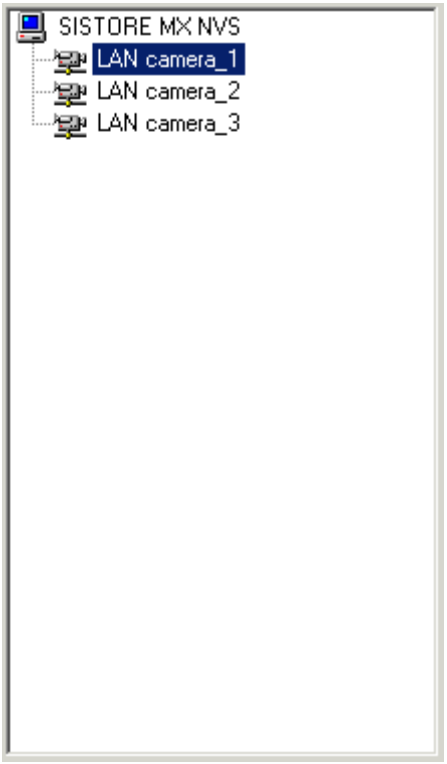


Fig. 33 Camera list on the LAN cameras tab

Prerequisites

- At least one LAN camera is connected to SISTORE MX NVS.
  See Section "General information on LAN cameras", page 45.
- The SISTORE MX NVS software has been started.
- See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

NOTE:
Please take into account that the LAN cameras are counted from **65** to **128**. We recommend integrating the camera number into the camera name, e.g. Door_1, Cam_2(66).

1. Select the **LAN cameras** tab.
2. Click the **Add** button .
   ➔ A LAN camera will be added in the camera list.
3. Enter a name for the camera in the **Name** text field.
4. Enter a short description, such as information on the camera position, in the **Description** text field.
5. Make the appropriate settings in the following fields:
   – Camera model / protocol
   – TCP/IP
   – Image quality and size
6. Repeat steps 2-5 for each camera.
7. Click **Apply**.
   ➔ Your settings will be saved.

Adding LAN cameras via the video server
In conjunction with the video servers AXIS 241Q, AXIS 241S and Telscan Web, 4 analog signals can be converted into 4 digital signals. This allows you to configure 4 LAN cameras with the same IP address.

Prerequisite:
- The analog cameras are connected to the video server.

1. Add the LAN cameras as described above.
2. Select the desired video inputs of the analog cameras in the **Video input** group field.
3. Click **Apply**.
   ➔ Your settings will be saved.

7.3 Deleting LAN cameras

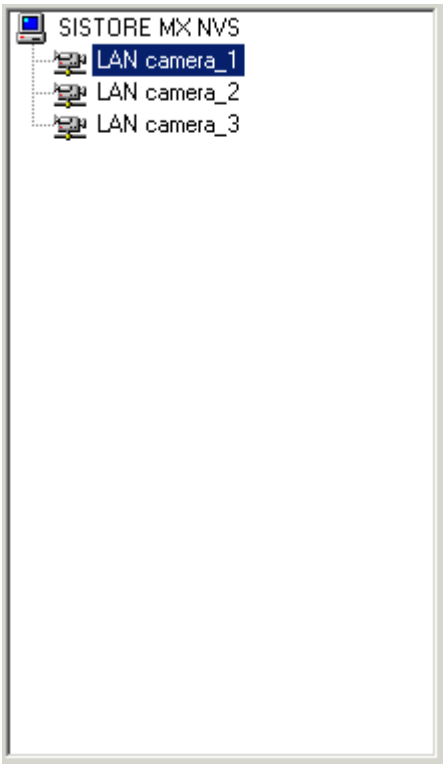


Fig. 34 Camera list on the LAN cameras tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- At least one analog camera is in the camera list. See Section "Adding a LAN camera", page 46.

1. Select the **LAN cameras** tab.
2. Select the camera you want to delete from the camera list (see Fig. 34, page 47).
3. Click the **Delete** button .
4. Confirm the message that follows with **OK**.
5. Click **Apply**.
   ➔ The setting will be saved.

7.4 Configuring image parameters

7.4.1 Setting brightness, contrast and colour saturation

CAUTION	**Malfunction due to too dark live image** With an image brightness of 0, the SISTORE MX NVS receives only black images. Motion detection no longer functions. – Select the standard setting 50 %.

NOTE: The slide controls for the image parameters are not activated for every LAN camera. For some LAN cameras the image parameters are instead set on the camera.

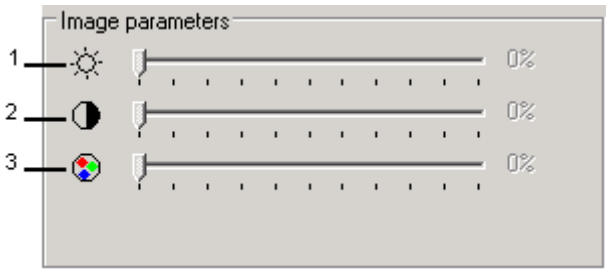


Image parameters	
1	Brightness
2	Contrast
3	Colour saturation

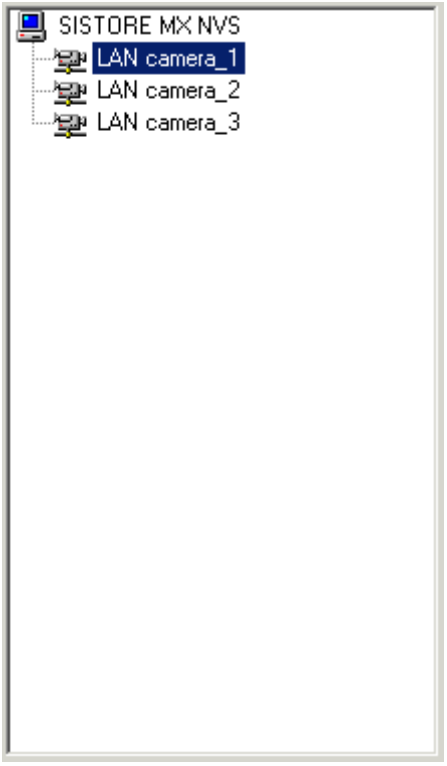


Fig. 35 Camera list on the LAN cameras tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- At least one analog camera is in the camera list.
  See Section "Adding a LAN camera", page 46.

1. Select the **LAN cameras** tab.
2. Select the camera for which you want to configure the image parameters from the camera list.
3. Move the slide control to the right or to the left.
4. Click **Apply**.
   ➔ The setting will be saved.

7.4.2 Setting image quality and resolution

NOTE:

- The higher the image quality, the less the image is compressed and the more network bandwidth is required for its transmission.
- Which image sizes are available depends on the LAN camera used.

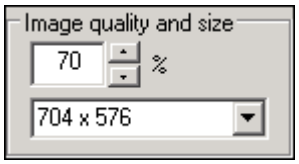


Fig. 36 Image quality and size group field on the LAN cameras tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- At least one analog camera is in the camera list.
  See Section "Adding a LAN camera", page 46.

1. Select the **LAN cameras** tab.
2. Select the camera for which you want to configure the image quality and size from the camera list (see Fig. 34, page 47).
3. Enter the image quality in the **%** text field (see Fig. 36, page 49).
4. Select the image size from the dropdown list.
5. Click **Apply**.
   ➔ The setting will be saved.

7.5 Configuring the live image display

Prerequisites

- The SISTORE MX NVS application software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.
- At least one analog camera is in the camera list.
  See Section "Adding a LAN camera", page 46.

Always display live images

1. Select the **LAN cameras** tab.
2. Select the desired camera in the camera list.
3. Mark the checkbox **Always visible**

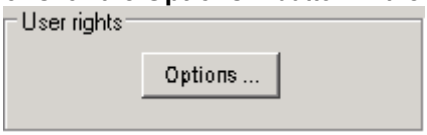
.
4. Click **Apply**.
➔ The setting will be saved.

NOTE:
If this checkbox is not marked, no live images will be shown in display mode if no local user is logged in.

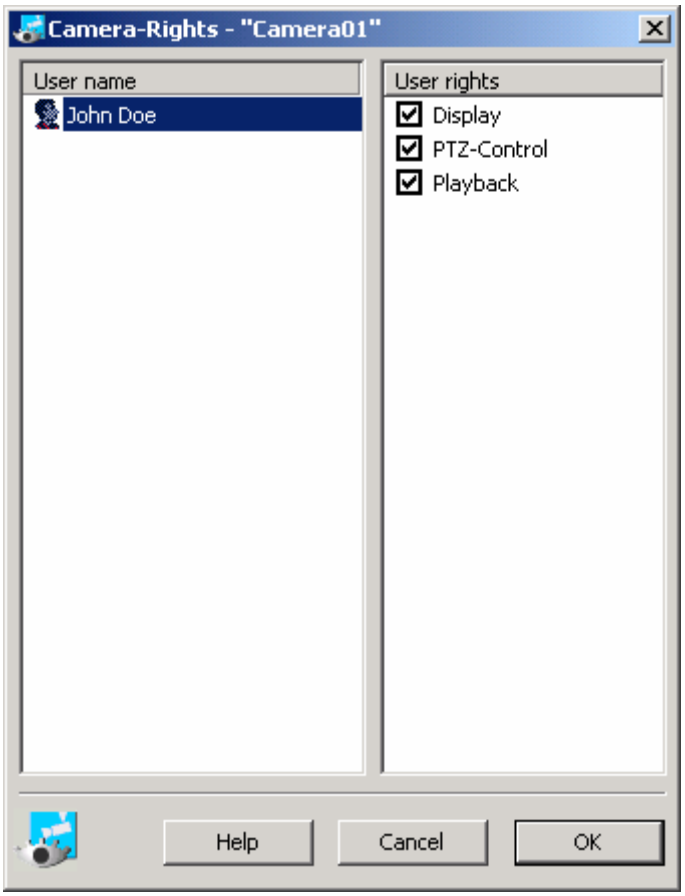
Display user-dependent live images

Here you can define which users are permitted to view the live image of a particular LAN camera. Users whose camera rights were not defined have no access to the live image and recordings of this LAN camera, also not via SISTORE RemoteView.

1. Select the **LAN cameras** tab.
2. Select the desired camera in the camera list.
3. Click the **Options...** button in the group field **User rights**.



➔ The **Camera Rights** dialog will appear.



4. Select the user in the **user name** field.
5. In the **User rights** field, select or deselect the checkboxes as desired.
6. Repeat steps 3 and 4 as often as required.

NOTE:
- If a new user is created, this user automatically receives the same rights for each camera as the user who created the new user.
- If a new camera is created, all users automatically receive all rights for this camera at first. If individual users are not to have all rights for the camera, these rights must be manually revoked after setting up the camera.

7. Click **OK**.
8. Click **Apply**.
   ➔ The setting will be saved.

7.6 Configuring sound recording

7.6.1 Configuring sound recording via audio input

The audio input (MIC or LINE) can be assigned to a LAN camera.

The audio mixer of the operating system must be set correctly do that a recording can be made (recording level, selection of the correct audio input). Sound (audio in) can be recorded using either an external microphone or a microphone that is integrated in the camera.

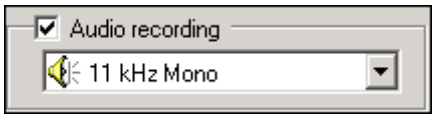


Fig. 37 "Audio recording“ group field on the "Cameras“ tab

Prerequisite:

- At least one analog camera is in the camera list. See Section 7.2 Adding a LAN camera.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **Audio recording**.
3. Select the sound quality from the dropdown list.
4. Click **Apply**.
   ➔ The setting will be saved.

7.6.2 Configuring sound recording via network connection

It is possible to record several audio streams of various LAN cameras simultaneously via a network connection.

Audio recording is supported by the Siemens camera types CCID1410, CFMC1315 and CCMC1315 as well as by those Axis cameras which are addressed via the VAPIX API.

Prerequisites:

- At least one analog camera is in the camera list. See Section 7.2 Adding a LAN camera.
- The camera model supports audio transmission via a network connection.

1. Select the **Cameras** tab.
2. Mark the checkbox **Audio recording**.
3. Select **Camera** in the list box.
4. Click **Apply**.
   ➔ The setting will be saved.

7.7 Configuring automatic camera positioning

SISTORE MX supports the protocols of the following PTZ LAN cameras:

AXIS 212 PTZ/213 PTZ	Siemens CCID1410-ST
AXIS 231/232 D+	Siemens CCIx1345 (with pan-and-tilt head)
AXIS Generic HTTP Interface V1.0 and V2.0	Siemens CCMS1315 (with pan-and-tilt head)
JVC VN-C30U	Siemens CFMC1315-LP (with pan-and-tilt head)
JVC VN-C625U	Sony SNC-M3/W
JVC VN-C655U	Sony SNC-P5
Panasonic KX-HCM280	Sony SNC-RZ25P
Panasonic WV-NM100/G	Sony SNC-RZ30P
Panasonic WV-NS202	SONY Generic HTTP Interface
Panasonic WV-NS320	VIVOTEK PZ6122
Samsung SNC-L200	

Tab. 1 PTZ LAN cameras or protocols supported by SISTORE MX NVS

Since different cameras from a manufacturer often use the same protocol, the list of cameras or protocols above may cover more LAN cameras than shown in the list.

Defining positions

Depending on the camera up to 32 positions can be defined. The positions are saved in the camera.

Fig. 38 Positions... button on the LAN cameras tab

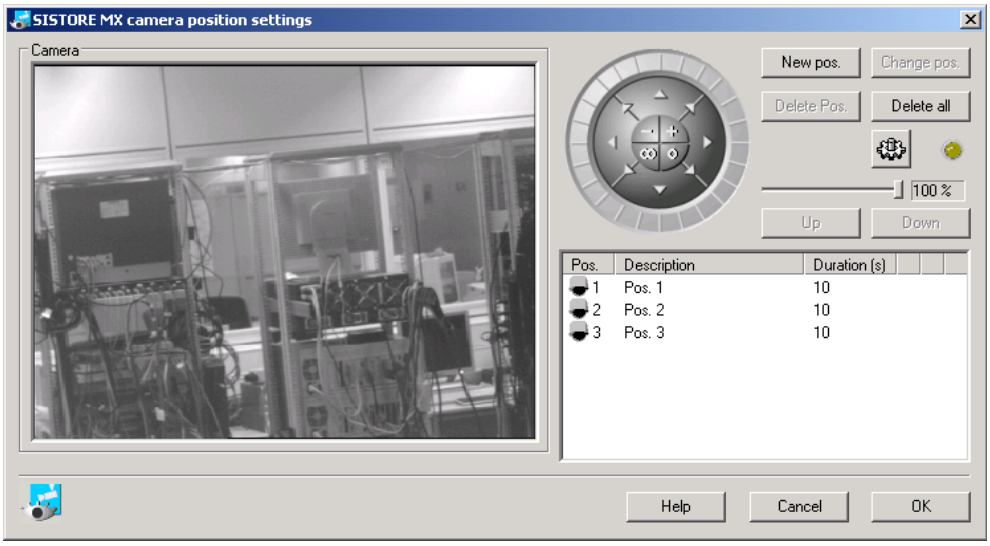
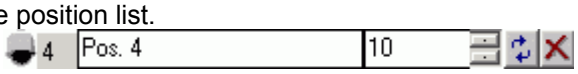


Fig. 39 SISTORE MX camera position settings via the Positions button on the LAN cameras tab

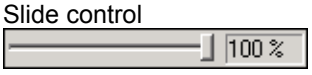
Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- There is at least one PTZ LAN camera in the camera list.

1. Select the **LAN cameras** tab.
2. Select the camera for which you want to configure the positioning from the camera list.
3. Click **Positions...** ().
   ➔ The SISTORE MX NVS **Camera position settings** window will open.
4. Move the camera to the desired position.

   You can control the camera with the mouse via the control element , with the keyboard or with a joystick.
5. Click **New pos.** to save a position or on **Change pos** to replace a position.
6. Click on the new position in the position list.
   ➔ The position will be framed. 

7. Enter an appropriate position name in the **Description** text field.
8. Select the duration of the position display using the arrows on the **Duration (s)** field (or enter a value).
9. Click **OK**.
   ➔ The SISTORE MX NVS **Camera position settings** window will close.
10. Click **Apply** on the **LAN cameras** tab.
    ➔ Your settings will be saved.

Additional functions	
Control element	Camera control (pan, tilt, zoom)
Delete pos. button	Deletes the selected position
Delete all button	Delete all positions in the position list **Please note:** The positions will be deleted without confirmation!
Button	Moves to the selected position
LED icon	If bright yellow: the camera is currently being moved
Slide control 	Sets the control sensitivity (the speed with which a camera moves to a position can be reduced for better accuracy)
Up button	Moves the selected position up in the position list
Down button	Moves the selected position down in the position list

Activating automatic positioning (patrol)

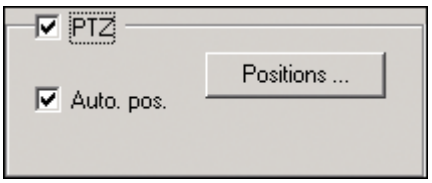


Fig. 40 Activating automatic camera positioning on the LAN cameras tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- There is at least one PTZ LAN camera in the camera list.
- At least two camera positions have been defined for the selected LAN camera.
  See the Section "Defining camera positions" (above) for more information on this.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **PTZ**.
3. Define the positions (see above).
4. Mark the checkbox **Auto. pos.**
5. Click **Apply**.
➔ The setting will be saved.

7.8 Releasing camera control

As long as a user is controlling a LAN camera, this camera is blocked for other users. In the **PTZ timeout** group field you can define the period without input after which the camera is released for all other users.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Enter the period after which the network camera is to be released in the field Assumption of the control after.
3. Click **Apply**.
➔ The setting will be saved.

7.9 Configuring access to LAN camera configuration

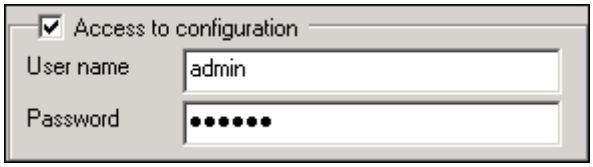


Fig. 41 Access to configuration group field on the LAN cameras tab

Prerequisites

At least one LAN camera is connected to the SISTORE MX NVS server. See Section "General information on LAN cameras", page 45.

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **Access to configuration** (see Fig. 41).
3. Enter a user name in the **User name** text field.
4. Enter a password in the **Password** text field.
5. Click **Apply**.
   ➔ Your settings will be saved.

7.10 Configuring live image access

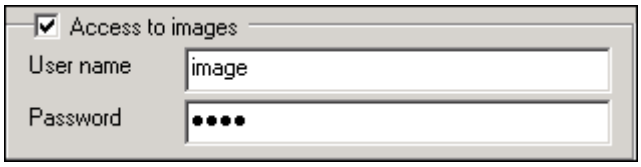


Fig. 42 Access to images group field on the LAN cameras tab

Prerequisites

- At least one LAN camera is connected to the SISTORE MX NVS server. See Section "General information on LAN cameras", page 45.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **Access to images** (see Fig. 42, page 56).
3. Enter a user name in the **User name** text field.
4. Enter a password in the **Password** text field.
5. Click **Apply**.
   ➔ Your settings will be saved.

7.11 Opening proprietary camera configuration dialogs

Some LAN cameras (such as those from Mobotix) have a wide range of functions that cannot be completely covered by the SISTORE MX NVS software. Therefore you can access the configuration dialog of the LAN camera directly using a browser.

Fig. 43 TCP/IP group field on the LAN cameras tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- At least one analog camera is in the camera list.
  See Section "Adding a LAN camera", page 46.

1. Select the LAN cameras tab.
2. Enter the IP address of the relevant LAN camera in the **URL** text field.
3. Enter the port number of the LAN camera in the **Port** text field.
4. Click **Browser...**
➔ A browser window with the proprietary configuration dialog for the camera will open.

8 Configuring motion detection

8.1 Activating motion detection via SISTORE MX NVS

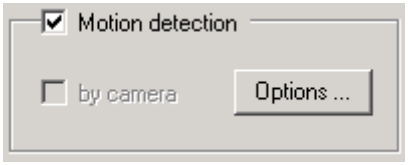


Fig. 44 "Motion detection“ checkbox on the "LAN cameras" tab

Prerequisite:

- At least one analog camera is in the camera list. See Section 7.2 Adding a LAN camera.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **Motion detection**.
➔ The **Options …** button is enabled.
➔ Motion detection via the SISTORE MX NVS application software has been activated.
3. Click **Options …**
➔ The **SISTORE MX motion detection** window will open. See Section 8.3 Configuring motion detection via SISTORE MX NVS.

8.2 Activating motion detection by LAN camera

There are LAN cameras that can detect motion. When such a camera is connected, the checkbox **by camera** on the **LAN cameras** tab is enabled.

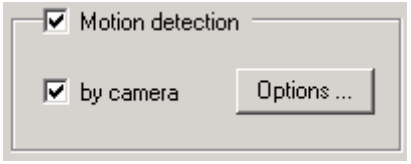


Fig. 45 "Motion detection“ checkbox on the "LAN cameras" tab

Prerequisite:

- At least one LAN camera that features "motion detection“ is listed in the camera list. See Section 7.2 Adding a LAN camera.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **Motion detection**.
➔ The **Options …** button is enabled.
3. Mark the checkbox **by camera**.
4. Click **Options …**

➔ The following dialog box opens.

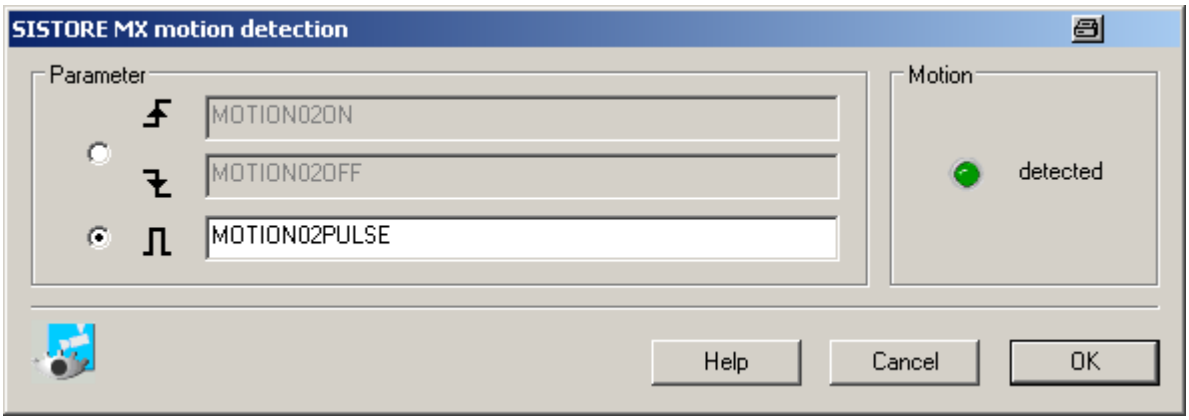


Fig. 46 "SISTORE MX motion detection“ dialog (by LAN camera)

➔ The following commands in the **Parameters** group field are configured by default:

	Command that activates motion detection (level to High) The following commands are defined by default: MOTION01ON for the first LAN camera, MOTION02ON for the second LAN camera, etc. up to MOTION32ON.
	Command that deactivates motion detection (level to Low) The following commands are defined by default: MOTION01OFF for the first LAN camera, MOTION02OFF for the second LAN camera, etc. up to MOTION32OFF.
	Command that switches motion detection in pulsed mode (Low -> High -> Low) The level is set to "High" for 1 second and then to "Low" again. The following commands are defined by default: MOTION01PULSE for the first LAN camera, MOTION02PULSE for the second LAN camera, etc. up to MOTION32PULSE.

5. If you want to define other commands, please note the following:
- It is recommended to always include the ID of the LAN camera in the command.
- The command configured in the software of the LAN camera must be consistent with the command defined here.
- Enter the commands in capital letters and without spaces.
- Information on how to configure TCP/HTTP and SMTP commands can be found in the manuals for the respective LAN cameras.

6. Click **OK**.

➔ The settings will be applied.

8.3 Configuring motion detection via SISTORE MX NVS

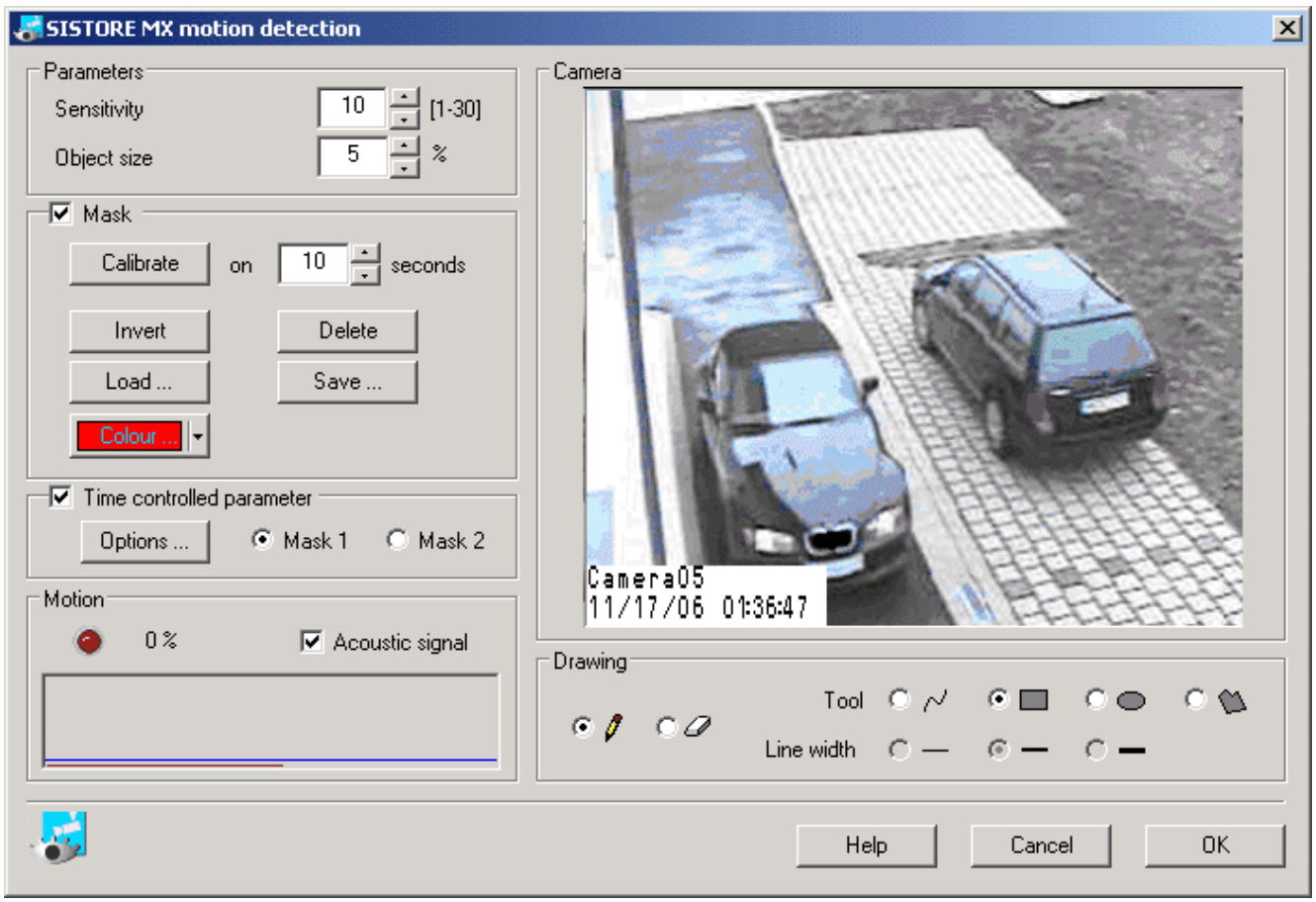


Fig. 47 "SISTORE MX motion detection“ dialog (via SISTORE MX NVS application software)

8.3.1 Setting the sensitivity of motion detection

Use **Sensitivity** to determine how sensitively the SISTORE MX reacts to motions, i.e. to the position change of an object.
With **Object size** you can govern the minimum size an object must have for it to be registered by the SISTORE MX. The percentage refers to the object size in relation to the size of the detection area. If no detection area is defined, the entire recording area of the camera is taken as the detection area.

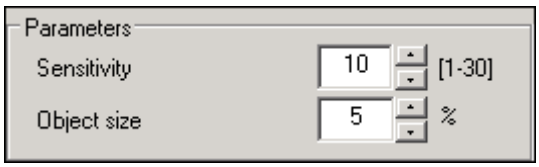


Fig. 48 Motion detection parameters in the SISTORE MX motion detection dialog

Prerequisite

- The **SISTORE MX motion detection** window is opened.
  See Section "Configuring motion detection via SISTORE MX NVS", page 60.

1. Enter the sensitivity level in the **Sensitivity** text field (see Fig. 48, page 60).
2. In the **Object size** text field, enter the minimum size as of which objects are to be registered.
3. Click **OK**.
   ➔ The **SISTORE MX motion detection** dialog will close.

8.3.2 Defining the detection area (mask)

You can define a detection area for LAN cameras. Select the **LAN cameras** tab in the SISTORE MX NVS application software.
You have three options to define a detection area for motion detection:

- Draw detection area
- Determine the detection area automatically
- Copy detection area (save and load)

Draw detection area

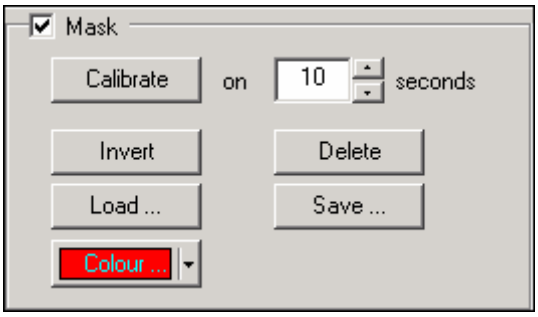


Fig. 49 Mask (= detection area) group field in the SISTORE MX motion detection dialog

Fig. 50 Drawing group field in the SISTORE MX motion detection dialog

Prerequisite

- The **SISTORE MX motion detection** window is opened.
  See Section "Configuring motion detection via SISTORE MX NVS", page 60.

1. Mark the checkbox **Mask**.
   ➔ The **Mask** group field will be activated.
2. Select a drawing colour from the **Color…** selection field.
3. Click the **Pencil tool** radio button .
4. Select a shape tool in the **Tool** line.
5. If you have chosen the shape tool **Line** :
   Select the **line width**.
6. Draw the detection area in the live image of the camera.
7. Click **OK**.
   ➔ The setting will be saved. The **SISTORE MX motion detection** dialog will close.

Tip: The eraser tool allows you to correct the detection area. All the shape tools can be used together with the eraser tool.

Tip: It may be simpler for complex shapes to draw the negative of the detection area and then click **Invert**.

Determining the detection area automatically

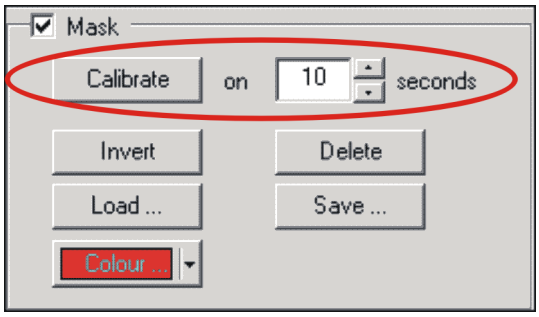


Fig. 51 Determining the detection area in the SISTORE MX motion detection dialog

Prerequisite

- The **SISTORE MX motion detection** window is opened.
  See Section "Configuring motion detection via SISTORE MX NVS", page 60.

1. Mark the checkbox **Mask**.
   ➔ The **Mask** group field will be activated.
2. Enter in the **seconds** text field the period during which the detection area should be determined.
3. Click **Calibrate**.
4. Confirm the message that follows with **OK**.
   ➔ The detection area will be determined.

Copy detection area (save and load)

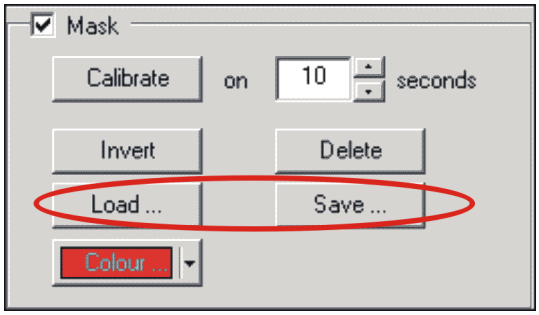


Fig. 52 Copying the detection area in the SISTORE MX motion detection dialog

Prerequisite

- The **SISTORE MX motion detection** window is opened.
  See Section "Configuring motion detection via SISTORE MX NVS", page 60.

Saving the detection area

1. Click **Save ...**.
   ➔ The **Save As...** dialog will open.
2. Select the directory in which to save the detection area file.
3. Enter a file name in the **File name** text field.
4. Click **Save**.
   ➔ The **Save As...** dialog will close. The detection area file will be saved.

Loading the detection area

1. Mark the checkbox **Mask**.
2. Click **Load ...**.
➔ The **Open** dialog will open.
3. Select the detection area file you want to load.
4. Click **Open**.
➔ The **Open** dialog will close. The detection area will be displayed on the live image in the **SISTORE MX motion detection** dialog.

8.3.3 Configuring the time control of the detection area

The SISTORE MX NVS application software can switch between two detection areas based on the time. This permits, for example, a different detection area to be used during the day than the one at night.

Fig. 53 The Time controlled parameter group field in the SISTORE MX motion detection dialog

Prerequisite

- The **SISTORE MX motion detection** window is opened.
  See Section "Configuring motion detection via SISTORE MX NVS", page 60.

1. Mark the checkbox **Time controlled parameter**.
➔ The **Time controlled parameter** group field will be activated.
2. Click the **Mask 1** radio button (= detection area 1).
3. Set the sensitivity of the motion detection.
See Section "Setting the sensitivity of motion detection", page 60.
4. Define a detection area in the live image of the camera.
See Section "Defining the detection area (mask)", page 61.
5. Click the **Mask 2** radio button (= detection area 2).
6. Repeat the steps 3 and 4.
7. Click **Options...**
➔ The **SISTORE MX time control** window will open.
8. Configure the time table.
See Section "Configuring time control", page 77.
➔ Mask 1 (detection area 1) will be used in the selected (blue) time segments; mask 2 (detection area 2) will be used in the unselected (white) time segments.
9. Click **OK**.
➔ Your settings will be saved. The **SISTORE MX time control** dialog will close.

9 Configuring tamper detection

9.1 Opening the sabotage detection dialog

NOTE:
Tamper detection is **not** possible with PTZ cameras.

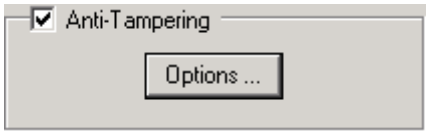


Fig. 54 Anti-tampering (sabotage detection) checkbox on the Cameras or LAN cameras tab

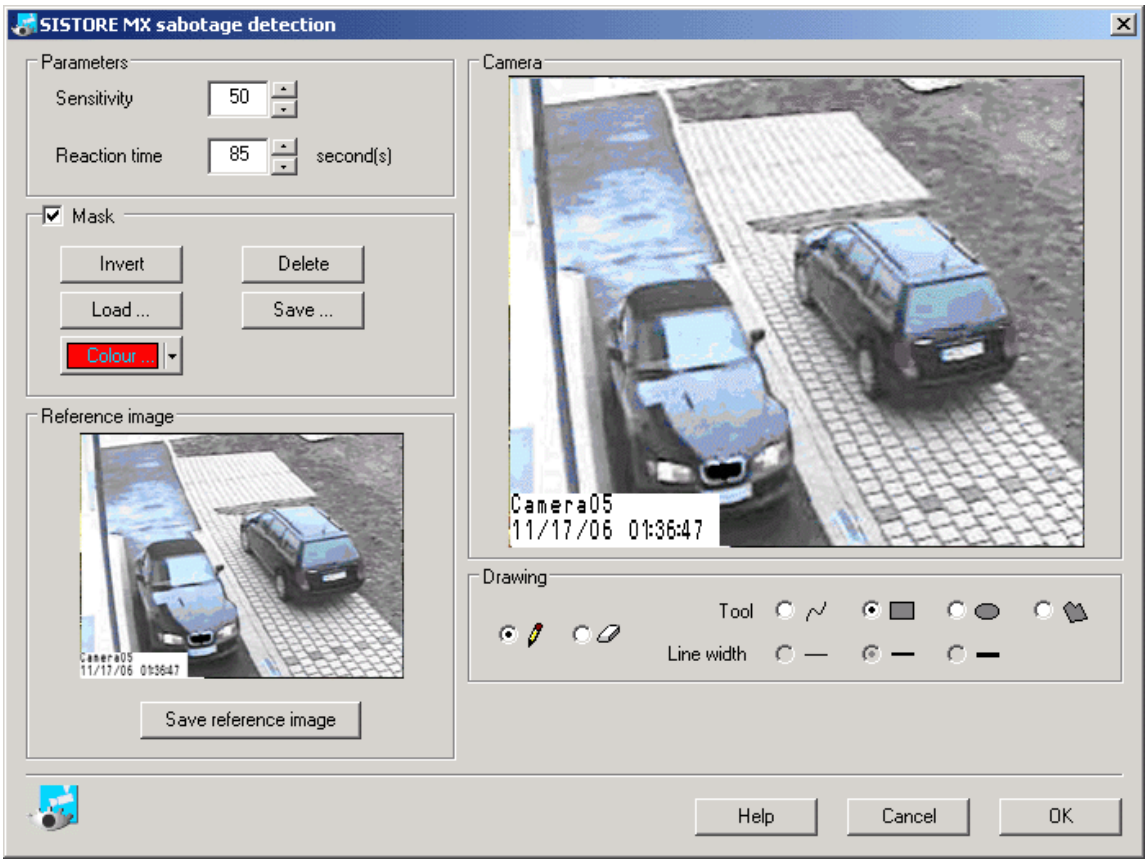


Fig. 55 The SISTORE MX sabotage detection dialog opened with the Options... button on the Cameras or LAN cameras tab

Prerequisites

- The SISTORE MX NVS application software has been started. See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.
- At least one analog camera is in the camera list. See Section "Adding a LAN camera", page 46.

1. Select the **Cameras** or **LAN cameras** tab.
2. Mark the checkbox **Anti-tampering**.
   See Section "Configuring tamper detection", page 71.
3. Click **Options...**
   ➔ The **SISTORE MX sabotage detection** window will open. See Section "Configuring tamper detection", page 64.

9.2 Setting the sensitivity of sabotage detection

Use **Sensitivity** to determine how sensitively the SISTORE MX NVS application software should react to motions, i.e. to the position change of an object.
With **Reaction time** you can determine how much time should elapse before the SISTORE MX NVS application software registers changes in the detection area and reports them as tampering.

Prerequisite

- The **SISTORE MX sabotage detection** window is opened.
  See Section "Configuring tamper detection", page 64.

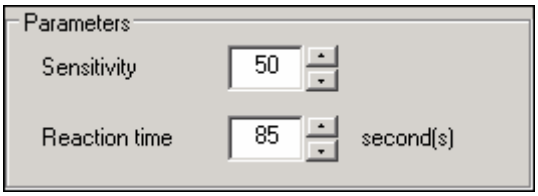


Fig. 56 Parameters group field in the SISTORE MX sabotage detection dialog

1. Enter a value in the **Sensitivity** field.
   ➔ The higher the value, the more sensitive the tampering detection function.
2. Enter a value in seconds in the **Reaction time** text field.
3. Click **OK**.
   ➔ The **SISTORE MX sabotage detection** dialog will close.

9.3 Defining the detection area (mask)

You can define a detection area for LAN cameras. Select the **LAN cameras** tab in the SISTORE MX NVS application software.
You have two options to define a detection area for sabotage detection:

- Draw detection area
- Copy detection area (save and load)

Draw detection area

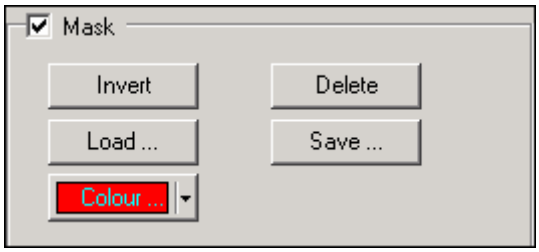


Fig. 57 Mask (= detection area) group field in the SISTORE MX sabotage detection dialog

Fig. 58 Drawing group field in the SISTORE MX sabotage detection dialog

Prerequisite

- The SISTORE MX sabotage detection dialog is opened.
  See Section "Configuring tamper detection", page 64.

1. Mark the checkbox **Mask**.
   ➔ The **Mask** (= detection area) group field will be activated.
2. Select a drawing colour from the **Color…** selection field.
3. Click the **Pencil tool** radio button.
4. Select a shape tool in the **Tool** line.
5. If you have chosen the shape tool **Line** :
   Select the **line width**.
6. Draw the detection area in the live image of the camera.
7. Click **OK**.
   ➔ The setting will be saved.

Tip: The eraser tool allows you to correct the detection area. All the shape tools can be used together with the eraser tool.

Copy detection area (save and load)

Prerequisite
- The SISTORE MX sabotage detection dialog is opened.

Saving the detection area
1. Click **Save ...**.
   ➔ The **Save As...** dialog will open.
2. Select the directory in which to save the detection area file.
3. Enter a file name in the **File name** text field.
4. Click **Save**.
   ➔ The detection area file will be saved.

Loading the detection area
1. Mark the checkbox Mask.
2. Click **Load...**
   ➔ The **Open** dialog will open.
3. Select the detection area file you want to load.
4. Click **Open**.
   ➔ The detection area will be displayed on the live image in the **SISTORE MX sabotage detection** dialog.

9.4 Saving a reference image

NOTE:
The sabotage detection function does not evaluate the reference image. It is only for purposes of visual checking by the user.

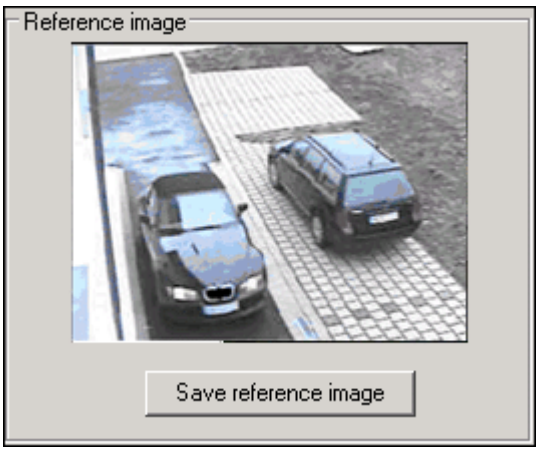


Fig. 59 Save reference image button in the SISTORE MX sabotage detection dialog

Prerequisites
- The **SISTORE MX sabotage detection** window is opened.
  See Section "Configuring tamper detection", page 64.

1. Click **Save reference image**.
2. Answer **Yes** in the confirmation dialog.
   The reference image of the camera will be saved.

10 Configuring alarm outputs

Prerequisite:

- A USB output module is connected to the SISTORE MX NVS server. See Section 2 "Details for ordering“. Further information on this can be found in the SISTORE MX NVS Installation Manual.

10.1 Adding and deleting alarm outputs

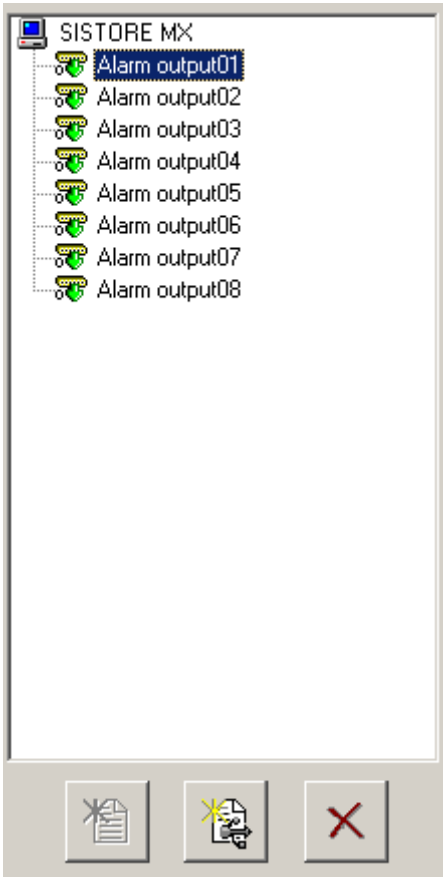


Fig. 60 Alarm outputs list on the Alarm output tab

Adding an alarm output

You can add up to 8 pulsed or alternating alarm outputs.

1. Select the **Alarm output** tab.
2. Click the following icon:

	Adding a USB alarm output Add an external alarm output (via USB module).

➔ A new alarm output will be added to the alarm output list.

3. Enter a name for the alarm output in the **Name** text field.
4. Enter a short description, such as information on the switch position, in the **Description** text field.

5. In the **Output** field, select the number of the physical device output (or the I/O card output).
6. Click Apply.
   ➔ Your settings will be saved.

Deleting an alarm output

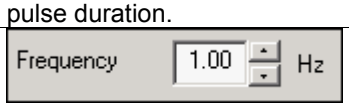
Prerequisites:

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Alarm output** tab.
2. Select the alarm output you want to delete in the list.
3. Click on the icon **Delete alarm output** .
4. Answer **Yes** in the confirmation dialog.
5. Click **Apply**.
   ➔ Your settings will be saved.

10.2 Selecting the switch action

You can define the response to an event for each alarm output. The following options are available:

	Open switch contact	
	Close switch contact	
	Negative switch pulse	
	Positive switch pulse	For the actions negative switch pulse and positive switch pulse you can set the switch pulse duration.
	Alternating	 You can set the frequency for the alternating action. The step width is: ● 0.01 Hz at 0.01 Hz to 0.5 Hz ● 0.1 Hz at 0.5 Hz to 1.0 Hz ● 1.0 Hz at 1.0 Hz to 5.0 Hz The green LED icon is lit continuously in this mode, since it does not show the switching state of the output but rather its activity.

Tab. 2 Switch modes on the Alarm output tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select an alarm output in the alarm outputs list.
2. Select a switch mode in the **Alarm output switch on alarm** group field.
3. Select the pulse duration or frequency as necessary.
4. Test the function of the alarm output with the **Test** button.
5. Click **Apply**.
➔ Your settings will be saved.

10.3 Event-based or time control of alarm outputs

NOTE:
An alarm output with a special function assigned to it is not available for the configuration of recording.

Fig. 61 Special functions group field on the Alarm output tab

The field selection **Normal** means **no special function** (see Fig. 61, page 71).

Name of the special function	**Function**
Remote controllable	The alarm output can be activated or deactivated by clicking the status LED icon (in the status display of the switch outputs in display mode) (see Fig. 62, page 72). You require the user right remote control (see Section "Global user rights“, page 92. Alarm outputs to which the action negative switch impulse or positive switch impulse have been assigned can also not be activated or deactivated via the status LED icon.
Error	The SISTORE MX sends a signal over the corresponding alarm output if one of the following faults occurs: ● UPS reports a power failure ● The SISTORE MX NVS software was not properly closed (for example due to power failure or Watchdog) ● Recording could not be started ● Fatal recording error ● Hard drive full, recording stopped ● Failure of a hard drive ● Windows device driver reports errors (event log)
Alarm	SISTORE MX sends a signal over the corresponding alarm output if an alarm recording is being made. The signal will be sent as long as the alarm recording lasts.
Motion	SISTORE MX sends a signal over the affected alarm output if a camera has detected a movement. The signal lasts one second. If the camera detects another movement within this second, the signal duration will be extended by another second, etc.
Loss of video	SISTORE MX sends a signal over the corresponding alarm output if at least one camera has failed.
Camera sabotage	SISTORE MX sends a signal over the corresponding alarm output if camera tampering has been detected.
Recording	During recording a signal will be sent periodically via the corresponding alarm output.

Time control	The SISTORE MX sends a signal over the corresponding alarm output at the specified times. If you select this special function the **Options…** button will be enabled. **1.** Click **Options...** ➔ The SISTORE MX NVS **Time control** window will open. **2.** Configure the time table. See Section "Configuring time control", page 77. ➔ The SISTORE MX NVS will send a signal over the alarm output during the marked (blue) time segments. **3.** Click **OK**. ➔ The dialog will close. **4.** Click **Apply**. ➔ Your settings will be saved.
Remote connection	The alarm output will be activated as soon as there is at least one connection to a SISTORE RemoteView client.

Tab. 3 Special functions of the alarm outputs

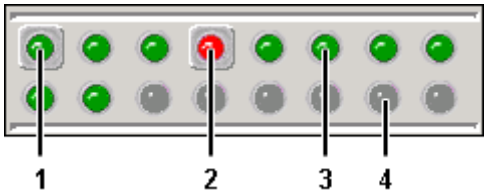


Fig. 62 Status of all alarm outputs in display mode

1 The special function remote controllable is assigned to the alarm output, and it is deactivated.
2 The special function remote controllable is assigned to the alarm output, and it is activated.
3 The special function remote controllable is not assigned to the alarm output, but the output is configured.
4 The alarm output is not configured.

The status display of the alarm outputs is also shown in SISTORE RemoteView. The status LED icons represent the alarm outputs in sequence (1 to 16) from the top left to the bottom right.

Event-controlled alarm output activation/deactivation
Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Alarm output** tab.
2. Select a special function from the **Special functions** dropdown list (see Fig. 61, page 71).
3. If you have selected the time control special function: see the table **Special functions of the alarm outputs** under the entry **time control**.
4. Click Apply.
➔ Your settings will be saved.

Time-controlled alarm output activation/deactivation

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- The special function time control is not assigned to the affected alarm output.

1. Select the **Alarm output** tab.
2. Mark the checkbox **Time control**.
➔ The **Options…** button will be enabled.
3. Click **Options...**
➔ The SISTORE MX NVS **Time control** window will open.
4. Configure the time table. See Section "Configuring time control", page 77.
➔ The alarm output is activated in the marked (blue) time segments and deactivated in the unmarked (white) time segments.
5. Click **OK**.
➔ Your settings will be saved.

11 Configuring alarm inputs

11.1 Adding and deleting alarm inputs

Prerequisite:

- A USB input module is connected to the SISTORE MX NVS server. See Section 2: Details for ordering.

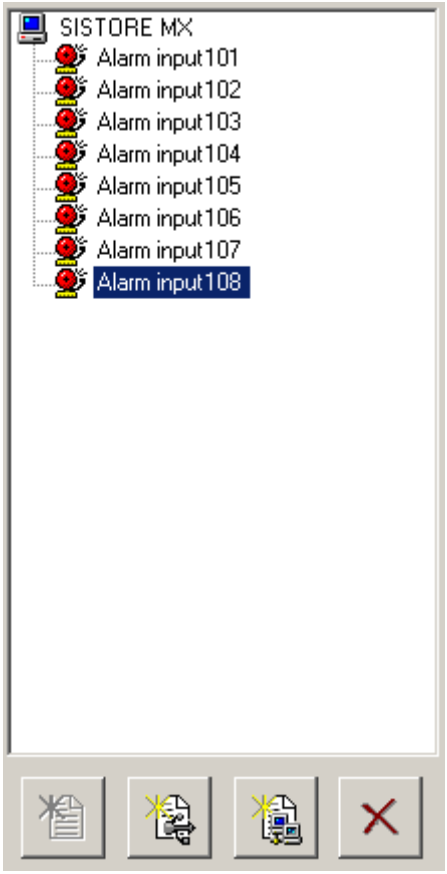


Fig. 63 Alarm inputs list on the Alarm input tab

Adding an alarm input

1. Select the **Alarm input** tab.

2. Click one of the following icons:

	Adding a USB alarm input Add an external alarm input (via USB module).
	Adding a network alarm input Add an external alarm input (via LAN camera).

➔ A new alarm input will be added to the alarm inputs list.

USB alarm inputs are assigned sequential numbers 065…096, and network alarm inputs 101…132.

3. Enter a name for the alarm input in the **Name** text field.

Names can be up to 16 characters long.

4. Enter a short description, such as information on the position, in the **Description** text field.
5. In the **alarm input** field, select the number of the physical device input (the trigger input of the I/O card).
6. Click **Apply**.
   ➔ The settings will be saved.

Deleting an alarm input

1. Select the **Alarm input** tab.
2. Select the alarm input you want to delete in the list.
3. Click the **Delete alarm input** button .
4. Answer **Yes** in the confirmation dialog.
5. Click **Apply**.
   ➔ Your settings will be saved.

11.2 Configuring USB alarm inputs

11.2.1 Trigger edge

NOTE:
The trigger edge applies to all alarm inputs. It cannot be set differently for multiple alarm inputs.

With the trigger edge you can determine whether

- an alarm input normally carries voltage and the voltage is interrupted during an alarm ( )
- or an alarm input carries voltage only in the case of an alarm and otherwise not ( ).

The **level sensitive** checkbox allows you to determine whether a recording ends directly after an edge or continues until the next edge.
Example:
The SISTORE MX NVS should start recording when a door is opened and stop when the door closes. The door opener (alarm input) generates a short signal (level change / edge) upon opening and closing of the door. If the **level sensitive** checkbox is not marked, the SISTORE MX NVS records only short sequences when the door is opened and when it is closed. If the checkbox is marked, the SISTORE MX NVS records a longer sequence from when the door opens until it is closed.

Fig. 64 **Trigger edge (global)** group field on the **Alarm input** tab

Fig. 65 **Level sensitive** checkbox on the **Alarm input** tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Alarm input** tab.
2. Select the alarm input you want to configure from the list (see Fig. 63, page 74).
3. Select a trigger edge in the **Trigger edge (global)** group field (see Fig. 64, page 75).
4. Mark the checkbox **level sensitive** if relevant (see Fig. 65, page 75).
5. Click **Apply**.
   ➔ The setting will be saved.

11.2.2 Priority

The following priorities can be selected for alarm inputs:
- Normal (the alarm input icon in the alarm input list is red, see Fig. 63, page 74)
- Hold-up (the alarm input icon in the alarm input list is orange)
- Suspicion (only possible if bank mode is active; the alarm input icon in the alarm input list is purple)

The priority of an alarm input plays a role in the configuration of the recording (see "Configuring recording modes", page 122). When an alarm with the priority hold-up is triggered, active recordings with the normal alarm priority and movement recordings are automatically ended. However, active recordings with the hold-up alarm priority cannot be automatically ended.

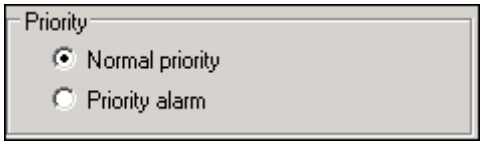


Fig. 66 Priority group field on the Alarm input tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Alarm input** tab.
2. Select the alarm input you want to configure from the list (see Fig. 63, page 74).
3. Select the priority of the alarm input in the **Priority** group field (see Fig. 66, page 76).

11.2.3 Configuring time control

You can activate and deactivate alarm inputs under time control.

NOTE:
Alarm inputs with the priority hold-up or suspicion cannot be activated or deactivated with time control.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

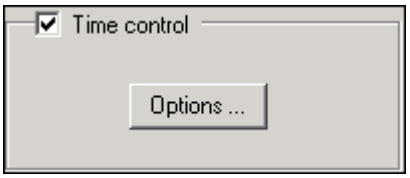


Fig. 67 Time control checkbox on the Alarm input tab

1. Select the **Alarm input** tab.
2. Select the alarm input you want to configure from the list (see Fig. 63, page 74).
3. Mark the checkbox **Time control** (see Fig. 67, page 77).
   ➔ The **Options…** button will be enabled.
4. Click **Options...**
   ➔ The SISTORE MX NVS **Time control** window opens.

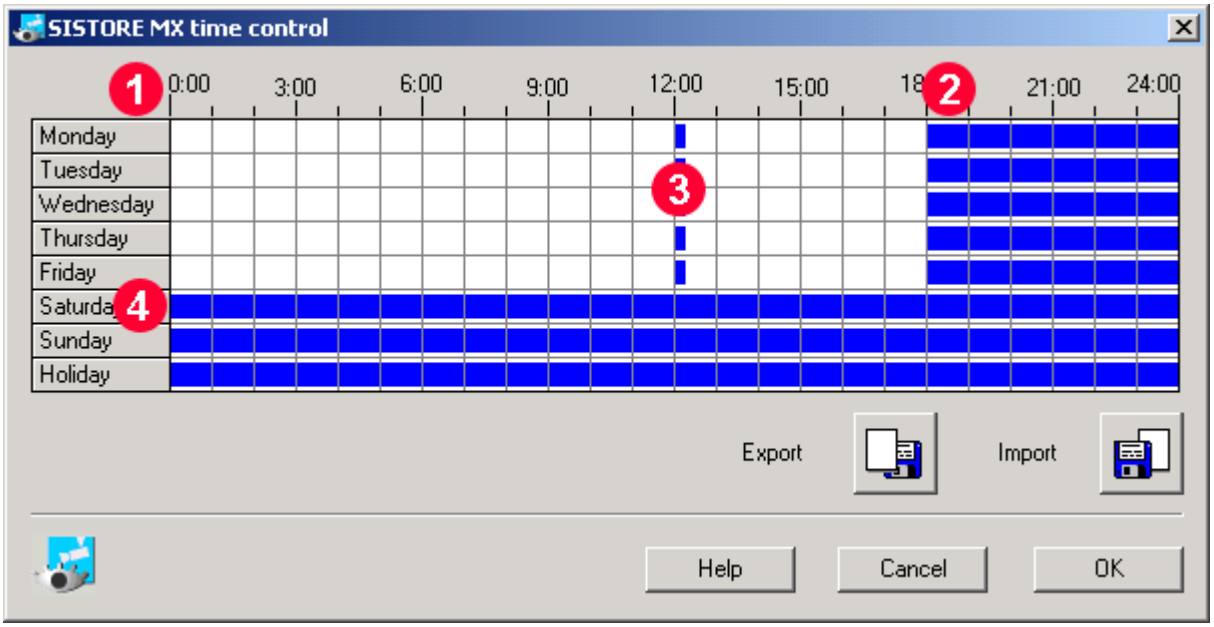


Fig. 68 Click points in the SISTORE MX NVS time control dialog

In general	**Left-click to select, right-click to remove a selection**
1	A click at this position affects the entire time table.
2	A click at this position affects a column (= one hour).
3	A click at this position affects an individual time segment (= 20 minutes).
4	A click at this position affects a row (= one day).

Tip: By clicking and dragging on the click points 2 or 3 you can conveniently select or deselect multiple columns or time segments.

Exporting a time control file
The **Export** button can be used to back up the time control file and transfer it to other systems.

1. Click the **Export** button .
   ➔ The **Save As...** dialog will open.
2. Select the directory into which you would like to export the time control file.
3. Enter a name in the **File name** field.
4. Click **Save**.
   ➔ The time control file will be exported.

Importing time control
You can import a saved time control file with the **Import** button.

NOTE:
If the time control has already been configured, this configuration will be replaced.

1. Click the **Import** button .
   ➔ The **Open** dialog will open.
2. Select the time control file to import.
3. Click **Open**.
   ➔ The time control file will be imported.

11.2.4 Testing the configuration of an alarm input

Fig. 69 The signal detected LED icon on the Alarm input tab

Prerequisites
See Section 5.1, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Alarm input** tab.
2. Select the alarm input you want to test from the list (see Fig. 63, page 74).
3. Trigger the (physical) alarm input.
   ➔ The LED icon will appear bright green briefly if the signal of the alarm input was detected.

11.3 Configuring network alarm inputs

11.3.1 Configuring priority

The following priorities can be selected for alarm inputs:

- Normal (the alarm input icon in the alarm input list is red)
- Hold-up (the alarm input icon in the alarm input list is orange)
- Suspicion (only possible if bank mode is active; the alarm input icon in the alarm input list is purple)

The priority of an alarm input plays a role in the configuration of the recording. See Section 16.4 Configuring recording modes. When an alarm with the priority hold-up is triggered, active recordings with the normal alarm priority and movement recordings are automatically ended. However, active recordings with the hold-up alarm priority cannot be automatically ended.

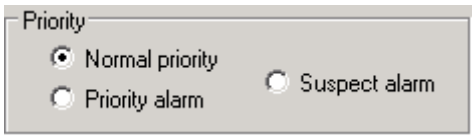


Fig. 70 Priority group field on the Alarm input tab

1. Select the **Alarm input** tab.
2. Select the alarm input you want to configure in the list.
3. Select the priority of the alarm input in the **Priority** group field.

11.3.2 Configuring time control

You can activate and deactivate alarm inputs under time control.

Alarm inputs with the priority hold-up or suspicion cannot be activated or deactivated with time control.

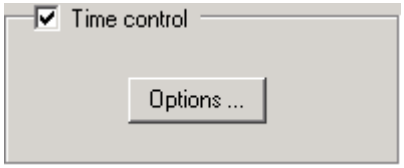


Fig. 71 Time control checkbox on the Alarm input tab

1. Select the **Alarm input** tab.
2. Select the alarm input you want to configure in the list.
3. Mark the checkbox **Time control**.
4. Click **Options...**.

➔ The following dialog box opens.

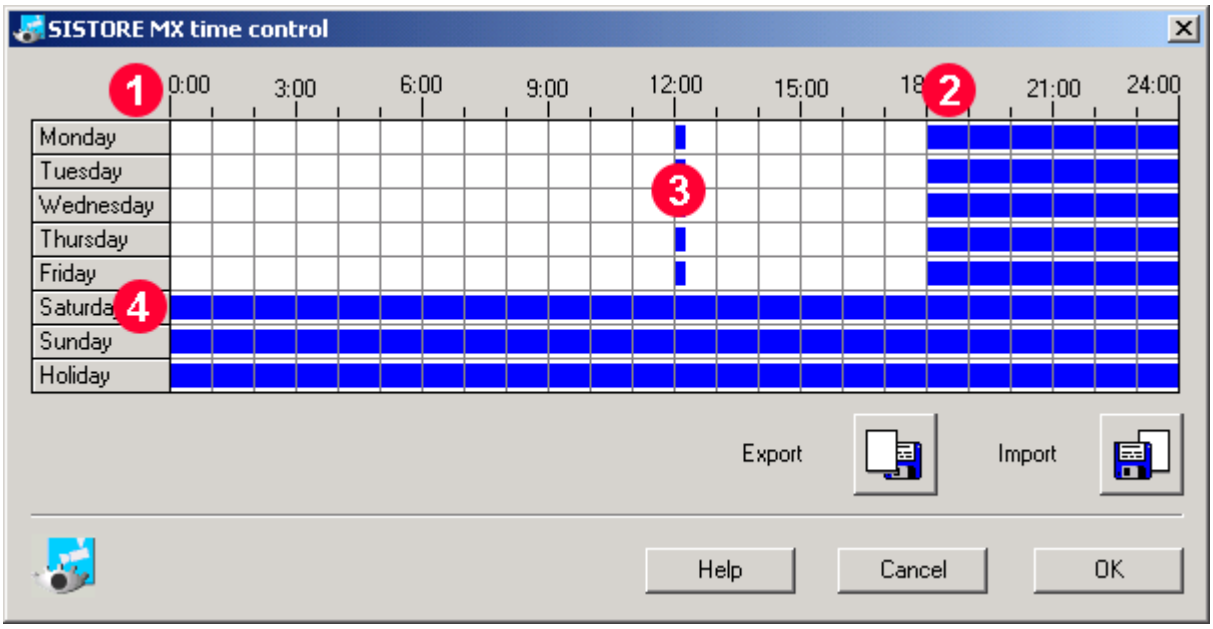


Fig. 72 Click points in the SISTORE MX time control dialog

The alarm input is activated only in the marked (blue) time segments.

5. Configure the time table. See also Fig. 72 and the following table:

In general	Left-click to select, right-click to remove a selection
1	A click at this position affects the entire time table.
2	A click at this position affects a column (= one hour).
3	A click at this position affects an individual time segment (= 15 minutes).
4	A click at this position affects a row (= one day).

Tip: By clicking and dragging on the click points 2 or 3 you can select or deselect multiple columns or time segments.

6. Click **OK**.
➔ The setting will be saved.

Exporting a time control file
The **Export** button can be used to back up the time control file and transfer it to other systems.

1. Click the **Export** button .
➔ The **Save As...** dialog will open.
2. Select the directory into which you would like to export the time control file.
3. Enter a name in the **File name** field.
4. Click **Save**.
➔ The time control file will be exported.

Importing time control
You can import a saved time control file with the **Import** button.

If the time control has already been configured, this configuration will be replaced.

1. Click the **Import** button .
   ➔ The **Open** dialog will open.
2. Select the time control file to import.
3. Click **Open**.
   ➔ The time control file will be imported.

11.3.3 Configuring network commands

Some LAN cameras can send user-definable commands via the protocols SMTP or HTTP/TCP. The SISTORE MX NVS server reacts to the text in the text fields (see Fig. 73). If this text is consistent with the command received, an alarm signal will be triggered.
The SISTORE MX NVS application software receives messages via IP port 80 (HTTP messages and TCP data) and IP port 25 (SMTP, i.e. e-mail server). The IP ports 80 and 25 are set by default.

- Basically, TCP is the fastest way to send messages, HTTP messages are slightly slower. E-mail messages sent via SMTP are slower but not as slow as regular e-mail messages.
- The IP port of the LAN camera and the IP port of the SISTORE MX NVS application software must be identical. See Section 5.8.1 Matching IP ports.
- With some cameras, it is not possible to change the IP port.
- The IP ports configured apply to all alarm inputs.

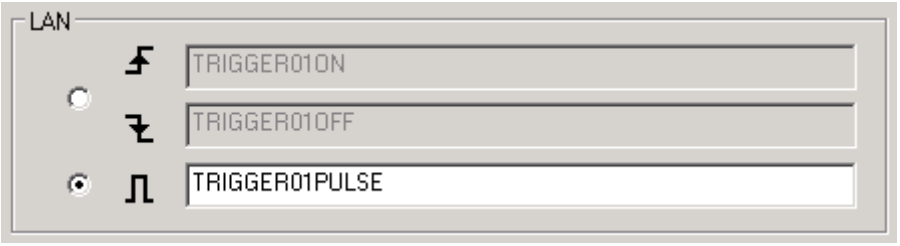


Fig. 73 Configuring LAN alarm inputs – Alarm input tab

4. Select the **Alarm input** tab.
   ➔ The following commands in the **Network** group field are configured by default:

	Command that activates an input (level to High) The following commands are defined by default: TRIGGER01ON for the first input, TRIGGER02ON for the second input, etc. up to TRIGGER32ON.
	Command that deactivates an input (level to High) The following commands are defined by default: TRIGGER01OFF for the first input, TRIGGER02OFF for the second input, etc. up to TRIGGER32OFF.
	Command that switches an input in pulsed mode (Low -> High -> Low) The level is set to "High" for 1 second and then to "Low" again. The following commands are defined by default: TRIGGER01PULSE for the first input, TRIGGER02PULSE for the second input, etc. up to TRIGGER32PULSE.

5. If you want to define other commands, please note the following:
   – It is recommended to always include the ID of the LAN alarm input in the command in order that the command can be allocated to the alarm input.
   – The command configured in the software of the LAN camera must be consistent with the command defined here.
   – Enter the commands in capital letters and without spaces.
   – Information on how to configure TCP/HTTP and SMTP commands can be found in the manuals for the respective LAN cameras.
6. Click **Apply**.
   ➔ The settings will be applied.

12 Map configuration

12.1 General information about maps

On the Map tab you can combine and link any number of maps (BMP files) with objects. The following limitations apply:

- A maximum of 32 maps can be shown.
- The maps can be shown in a maximum of 2 hierarchy levels.
- A maximum of 192 objects can be placed.
- The minimum size of maps is 256 x 256 pixels.
- The maximum size of maps is 2048 x 2048 pixels.
- The colour depth must be 8- or 24-bit.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode. See Section "Opening configuration mode", page 18.

1. Select the **Map** tab.
➔ The following dialog box opens:

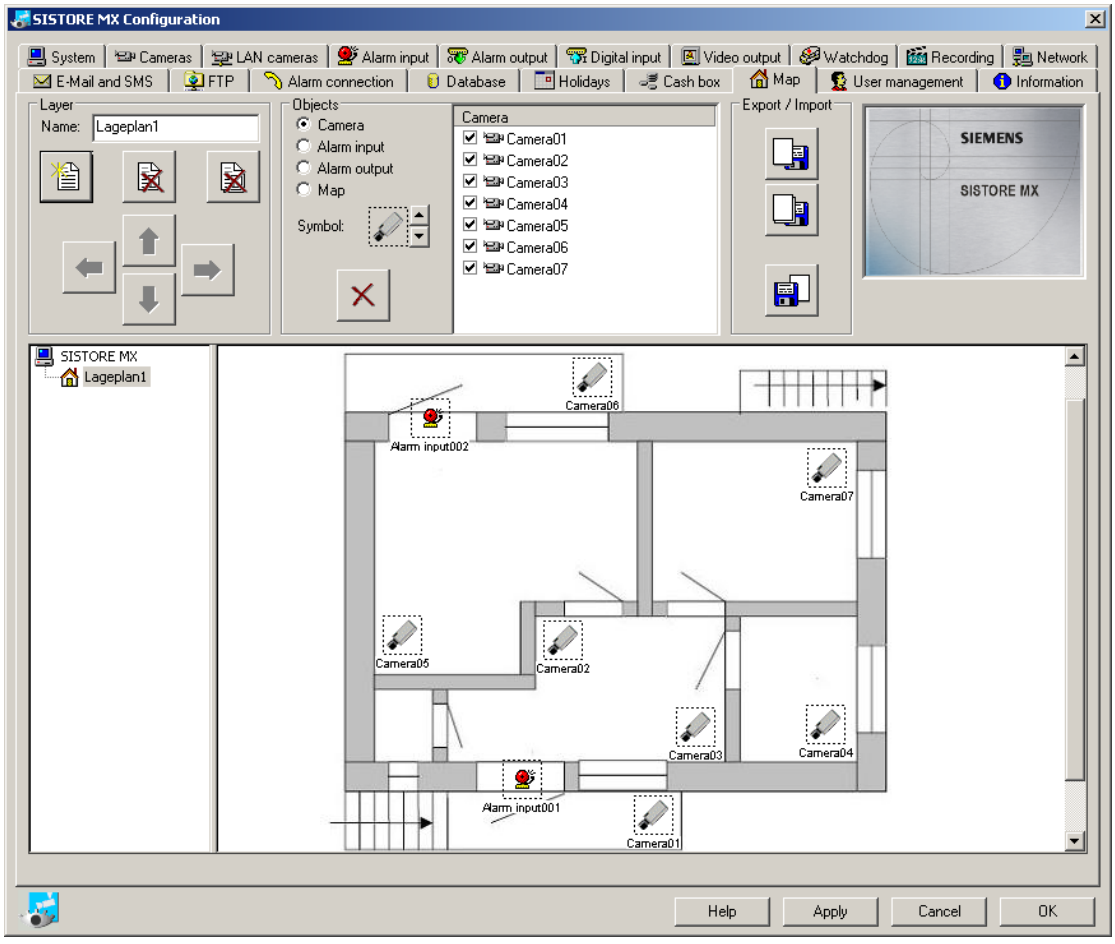


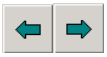
Fig. 74 SISTORE MX – configuration of the map

Display window
The map selected in the tree view will be shown in the display window with the set objects. If the graphic of the map is larger than the display area, scroll bars will be displayed.

Note
The graphic of the map to be displayed is not scaled.

Tree structure
The tree view shows all the maps configured in SISTORE MX in their hierarchy. A maximum of 2 hierarchy levels can be created.

Layer

Name	Name of the map. The map will be displayed in the tree view with the name entered here.
	Add map to the tree view
	Delete map selected in the tree view
	Delete all maps
	Move map one position up/down.
	Move map one hierarchy level to left/right. A maximum of 2 hierarchy levels can be created (main levels and one subordinate level per main level).

Export / Import
The following export and import functions are available:

	Export current layer
	Export all layers
	Import layer

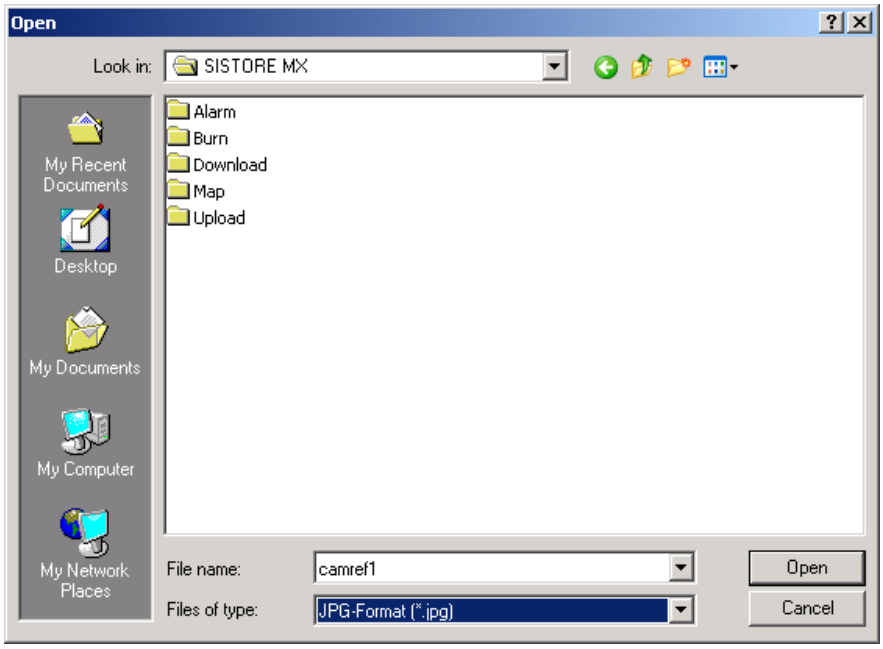
12.2 Adding a map

NOTE:
- Maps must be present as JPEG files. The minimum size of maps is 256 x 256 pixels, and the maximum size is 2048 x 2048 pixels. The colour depth must be 8- or 24-bit.
- Since SISTORE MX NVS does not work with a copy of the specified file, the map file to use should be saved in the directory ...\SISTORE MX NVS\Map.
- In single-monitor mode and with a screen resolution of 1280 x 1024 pixels it is recommended that maps not exceed 800 x 600 pixels.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Map** tab.

2. Click the **Add new layer** button.
➔ The **Open** dialog opens.



3. Select the desired map.
4. Click Open.
➔ The map will be added to the map list.
➔ The selected map will be shown in the display window.

12.3 Deleting a map

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

Deleting a selected entry

1. Select the **Map** tab.
2. Click on the map to delete in the map list.
3. Click the button .
4. Answer **Yes** in the confirmation dialog.
➔ The entry will be deleted.

Delete all entries

1. Select the **Map** tab.
2. Click the button .
3. Answer **Yes** in the confirmation dialog.
➔ All entries will be deleted.

12.4 Linking a map

If the option **Map** is selected, all the maps that have been created will be shown in the list. The individual maps can be placed, deleted and moved in the same manner as the address objects (see Sections 25.12.3 and 25.12.4).

Display map

1. Click on a map.
➔ The map will be opened in the SISTORE RemoteView display window.

12.5 Edit layer

12.5.1 Import layer

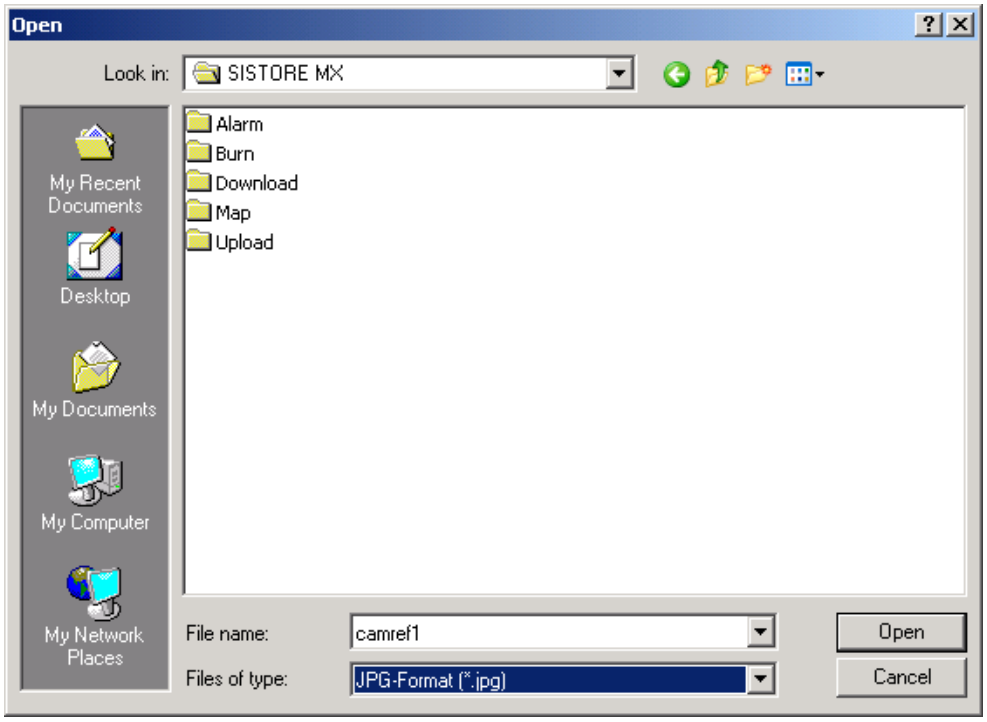
You can import a saved layer as a map file with the **Import layer** button.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Map** tab.

2. Click the **Import** button .
➔ The **Open** dialog opens.



3. Select the layer you want to import.

4. Click **Open**.
➔ The layer will be imported.

12.5.2 Export layer

If the current configuration is composed of multiple layers, you can export a particular layer or all layers.

Prerequisites:

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- At least one holiday has been configured.
  (See Section 22 Configuration of holidays.)

1. Select the **Map** tab.
2. Click the button of the desired export function.
The following export functions are available:

	Export current layer
	Export all layers

➔ The **Save As...** dialog opens.

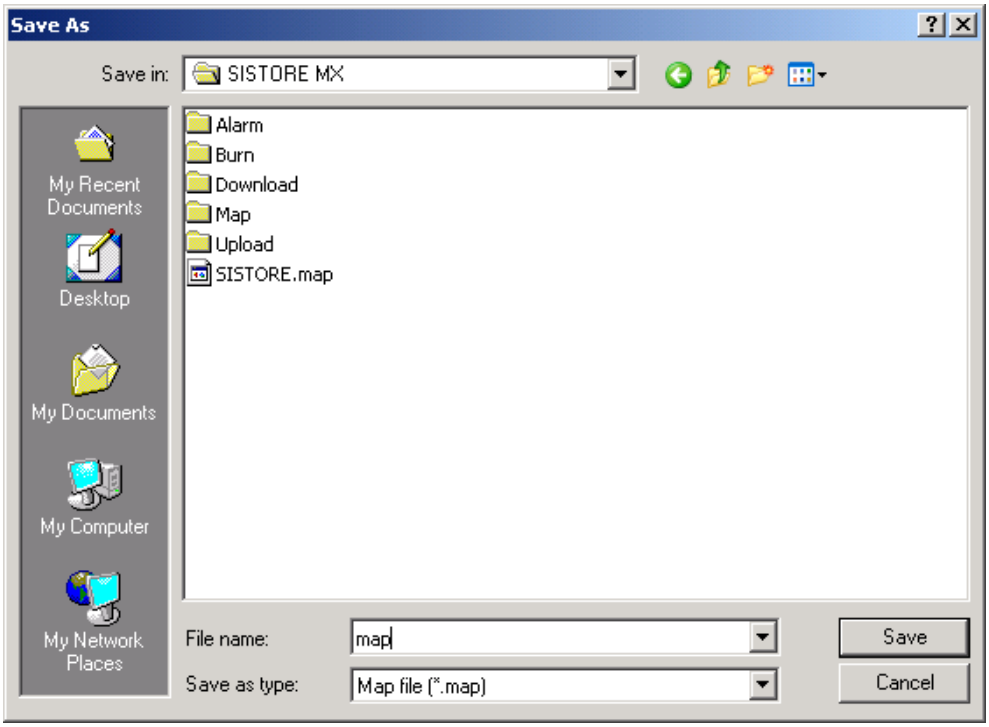


Fig. 75 "Save As“ dialog

3. Select the directory in which to save the layer(s).
4. Enter a name in the **File name** field.
5. Click **Save**.
➔ The layer will be saved.

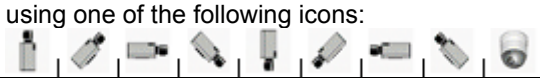
12.6 Edit object

12.6.1 Insert object

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode. See Section "Opening configuration mode", page 18.
- All objects used in the map must be configured.

1. Select the **Map** tab.
2. Select an object type in the **Objects** group field.
The following object types are available:

	Camera object type: With the camera object type you can indicate the direction of the camera using one of the following icons: 
	Alarm input object type
	Alarm output object type
	Map object type The map object type enables switching to another map listed in the tree.
	Delete button The delete button deletes all objects of the selected level.

➔ Depending on the object type selected, the available elements of this object type will be shown in the selection list:

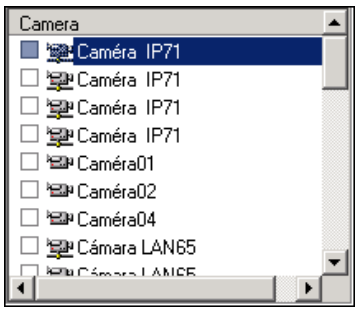


Fig. 76 Selection list of the camera object type

3. Select the desired camera from the list.
➔ If a camera was selected in the selection list for the camera object type, its live image is shown in the window at the top right.
4. Left-click on the desired position of the object on the map.
➔ The object will be inserted at this position on the map.
➔ The placement of the object is confirmed in the selection list by a mark in the checkbox.
5. Click **Apply**.
➔ The setting will be saved.

Note
An object can be configured in multiple levels but only once in each level.

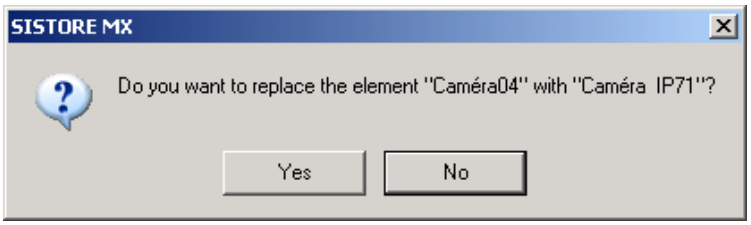
12.6.2 Changing objects

Individual objects within an object type can be changed subsequently.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Map** tab.
2. Select the desired object type in the **Object** field.
3. Select the desired object from the selection list.
4. Left-click on the object to be replaced on the map.
   The following query appears:



5. Answer **Yes** in the confirmation dialog.
   ➔ The object will be changed.
6. Click **Apply**.
   ➔ The setting will be saved.

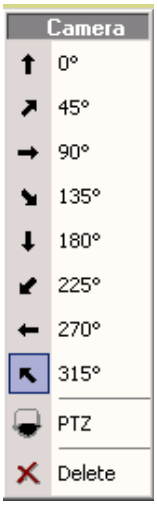
12.6.3 Changing the camera icon

You can use the context menu to change the camera icon for a camera later on the map.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
  The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Map** tab.
2. Right-click on the relevant camera icon.
   ➔ The following context menu opens:



3. Click on the desired camera icon.
➔ The icon to be changed will be replaced by the desired icon.
4. Click **Apply**.
➔ The setting will be saved.

12.6.4 Changing the position of the object

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Map** tab.
2. Left-click on the relevant object.
3. Hold down the mouse button.
4. Move the object to the desired position.
5. Release the mouse button.
➔ The object will be located at the desired position.
6. Click **Apply**.
➔ The setting will be saved.

12.6.5 Deleting an object

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

Deleting individual objects
The following options are available to delete individual objects:
- Remove the checkmark in front of the relevant object in the selection list.
- Double-click the affected object with the left mouse button.
- Select "Delete" from the context menu of the object.

Deleting all objects
1. Select the **Map** tab.
2. Click the button in the **Objects** group field.
➔ All objects in the corresponding layer will be deleted.

13 Configuring user and access management

13.1 General information on user management

13.1.1 User groups

There are four user groups:

- Administrator: has all rights
- Installer: has all rights except the administration right
- User administrator: has the rights **user management**, **database management** and **delete**. The rights of the user group **User** can also be assigned.
- User: can have the rights **start/stop**, **remote control**, **remote access**, **playback**, **audio playback**, **export** and **cash dispenser search** if they have been assigned.

NOTE:
Assign the user group **Administrator** only to users who install complete systems (such as system administrators).
For security reasons, assign all other users only the user group and rights they actually need. Then input windows that are not needed will not be shown.

Assignment of rights to user groups
The following table gives information on the user groups and the assignment of rights to these groups.

Rights		Administrator	Installer	User Administrator	User
Administration	+	x	-	-	-
Installation	+	x	x	-	-
Configuration		x	x	-	-
User administration	+	x	x	x	-
Database		x	x	x	-
Delete		x	x	x	-
Start/Stop	+	x	x	x	o
Live audio	+	x	x	x	o
Remote control	+	x	x	x	o
Remote access	+	x	x	x	o
Playback	+	x	x	x	o
Audio playback	+	x	x	x	o
Cash box search	+	x	x	x	o
Export	+	x	x	x	o
Display (cam)	+	x	x	x	o
PTZ (cam)	+	x	x	x	o
Camera playback (cam)	+	x	x	x	o

x	The user has this as a basic right
-	The user never has this right
o	The user can have this right assigned
(cam)	Camera-specific right
+	The right can be individually configured

As can be seen in the table above, the user groups **Administrator**, **Installer** and **User Administrator** have fixed, predefined rights. Only the user group **User** can have individual rights assigned.

13.1.2 Global user rights

Global rights are user rights that apply to all cameras. They cannot be assigned to a user only for particular cameras. The following table describes the global user rights.

Right	Description
Administration	● Configure all system settings
Installation	● Configure system settings, with restrictions
Configuration	● Create and delete users and assign rights ● Configure the user interface ● Configure hardware
User administration	● Create new users ● Deleting existing users ● Change the rights of users
Database management	● Edit the database during playback, for example: – Create a backup of the database – Create a new database, test and repair the database and re-index the database. Prerequisite: playback right.
Delete	● Delete messages and recordings Prerequisite: playback right.
Start/Stop	● Start, pause and end recording. ● Terminate SISTORE MX
Remote control	● Activate and deactivate alarm outputs either locally at the server or via RemoteView ● Control PTZ camera Prerequisite: These have been configured appropriately
Remote access	● Log on to the system via SISTORE RemoteView Remote maintenance and remote surveillance
Playback	● The prerequisite to receiving a camera-specific playback right. ● Prerequisite for audio playback
Audio playback	● Play back audio recordings. Prerequisite: playback right.
Export	Export recordings and save them in some form, for example: ● Create AVIs ● Create individual images (JPG) ● Print images Prerequisite: playback and export authorisation.
CDM search	● Start a CDM search with a cash dispenser system and activated bank mode Playback authorisation is not mandatory for this. A user who has CDM search authorisation without playback authorisation can switch to playback mode but he can only carry out CDM search functions. They see no logbook, for example. The "CDM search" right is available in the user configuration, but only for systems with a CDM license and activated bank system.

13.1.3 Camera-specific user rights

Camera-related user rights are rights that can be assigned to a user only for specific cameras. The following table describes the camera-specific user rights.

Right	Description
Display	● View the live images of a camera DISPLAY is a camera-specific right. DISPLAY authorisation is not necessary to play the recordings of a camera. The camera-related or global playback authorisation is sufficient for this.
PTZ	● Pan/tilt camera control. Prerequisite: DISPLAY authorisation for the particular camera.
Playback	● Play back recordings of a camera Prerequisite: Global playback right This does not apply to cash dispenser cameras and cash box cameras. For cash dispenser cameras the global CDM search right applies; for cash box cameras the global cash box right applies. ● Start cash box search with a cash box system. This is only possible for systems with a cash box license or only with bank systems.

13.2 User account configuration

13.2.1 Creating and changing user accounts

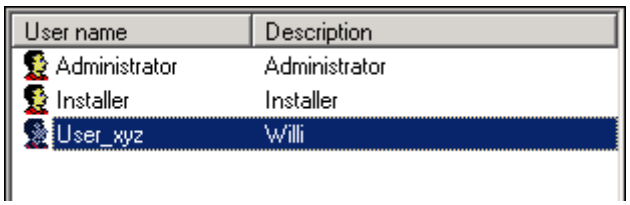


Fig. 77 User account list on the User management tab

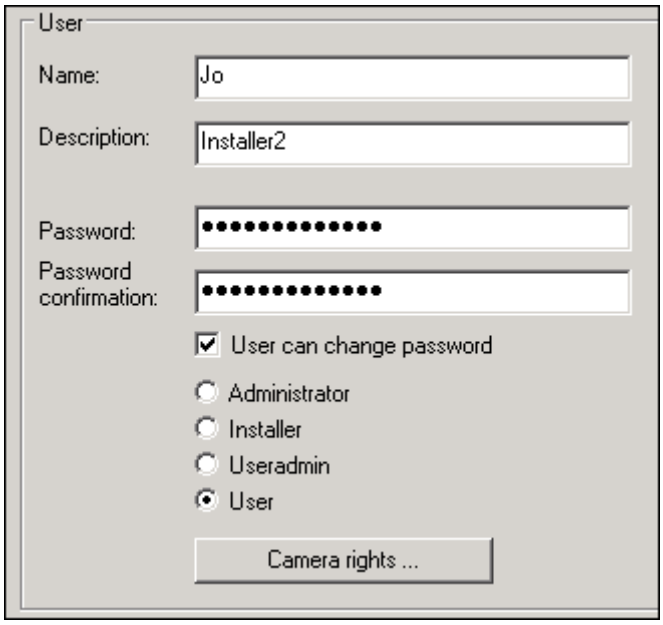


Fig. 78 User group field on the user management tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- You have the right user management.
  See Section "User groups“, page 91.

1. Select the **User management** tab.

2. Click the **Add** button below the user account list.
➔ A new line will be added to the user account list.

NOTE:
If the text fields **Name**, **Password** and **Password confirmation** are not filled in completely or no user rights have been assigned, an error message will be displayed.

3. Enter a name for the user account in the **Name** text field.
4. Enter a short description in the **Description** text field.
5. Enter a password with at least eight characters in the **Password** text field.
6. Re-enter the password in the **Password confirmation** text field.
If users who are logged in to this account may change the password:

1. Mark the checkbox **User can change password**.
2. To assign a user category to the user, click the radio button **Administrator**, **Installer**, **Useradmin** or **User**.
   See also Fig. "User group field on the user management tab“, page 94.

If you have chosen the **User** radio button:

1. Mark the desired checkboxes in the **User rights** group field.

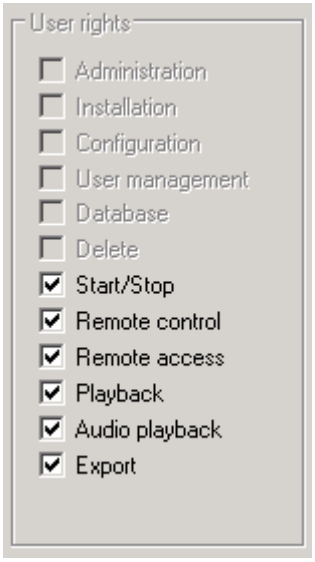
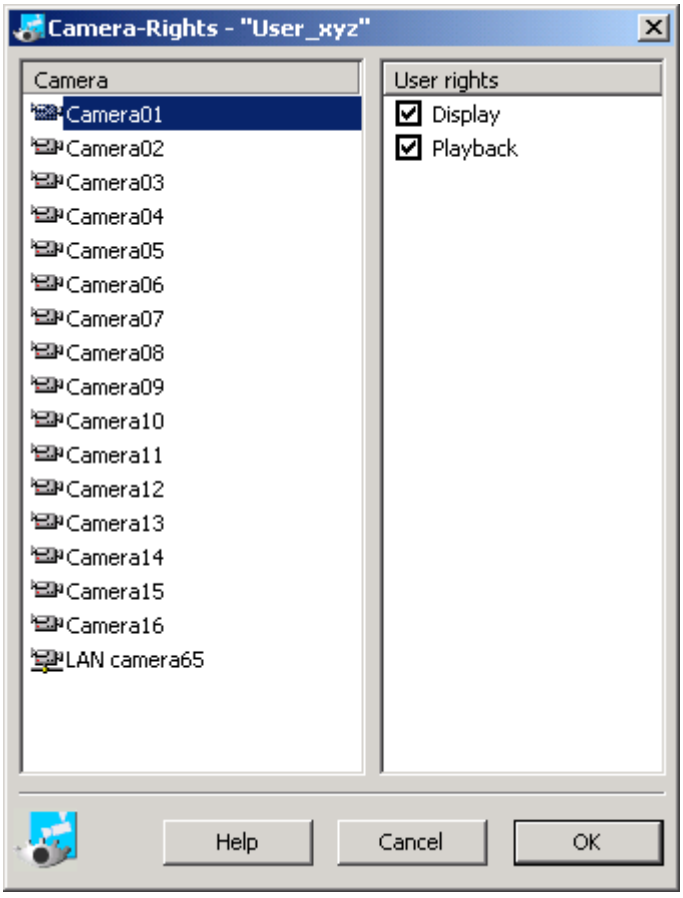


Fig. 79 User rights group field on the user management tab

2. Click the **Camera rights...** button.
   ➔ The **Camera Rights** dialog will appear.



3. Select the camera.
4. In the **User rights** field, select or deselect the checkboxes as desired.
5. Repeat steps 5 and 6 as often as required.

NOTE:
- If a new user is created, this user automatically receives the same rights for each camera as the user who created the new user.
- If a new camera is created, all users automatically receive all rights for this camera at first. If individual users are not to have all rights for the camera, these rights must be manually revoked after setting up the camera.

6. Click **OK**.

13.2.2 Deleting a user account

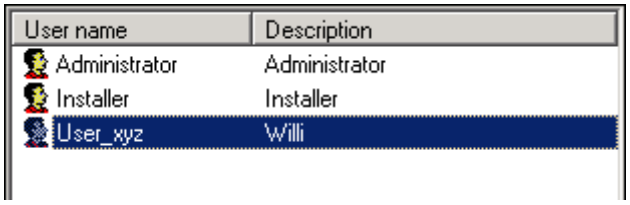


Fig. 80 User account list on the User management tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- You have the right user management.

1. Select the **User management** tab.
2. Select the user account you want to delete in the list.
3. Click the **Delete** button .
4. Answer **Yes** in the confirmation dialog.
   ➔ The user account will be deleted from the user account list.

13.2.3 User account locking

NOTE:
After a password is enter incorrectly three times, the user account affected will be blocked. To unlock: see "Unlocking a user account", page 97

Fig. 81 Lock button on the User management tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- You have the right "user management".

1. Select the **User management** tab.
2. Select the user account you want to lock from the user account list (see Fig. 80, page 96).
3. Click **Lock** (see Fig. 81, page 97).
4. Click **Apply**.
   ➔ The setting will be saved. The user account is locked.

13.2.4 Unlocking a user account

You can unlock a user account manually or automatically.

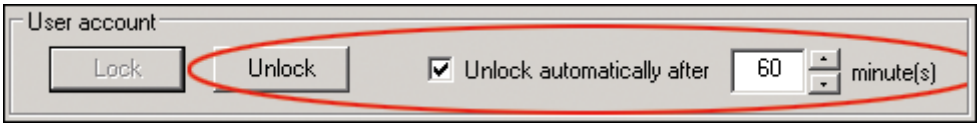


Fig. 82 User account group field on the User management tab

Manually unlocking a user account
Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- You have the right "user management".

1. Select the **User management** tab.
2. Select the user account you want to unlock from the user account list.
3. Click the **Unlock** button (see Fig. 81, page 97).
4. Click **Apply**.
   ➔ The setting will be saved. The user account is unlocked.

Automatically unlocking a user account

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- You have the right "user management".

1. Select the **User management** tab.
2. Select the user account you want to unlock automatically from the user account list.
3. Mark the checkbox **Unlock automatically after** (see Fig. 81, page 97).
4. Enter a value in minutes in the **minute(s)** text field.
5. Click **Apply**.
   ➔ The setting will be saved. The user account will be unblocked after the time entered has passed.

13.2.5 Predefined user accounts: Administrator and Installer

Only use the user account Administrator if it is necessary!

The software is shipped with two user accounts already set up: Administrator and Installer. The associated passwords are Administrator and Installer respectively. **Change these passwords** during the operational setup of the SISTORE MX NVS server.

Both of these user accounts cannot be deleted, and configuration of them is restricted:

- Administrator: has all rights
- Installer: has all rights except the administration right

Users with only basic knowledge of SISTORE MX NVS should only work with the user account Installer or with another limited user account.

13.2.6 Configuring the validity period of a password

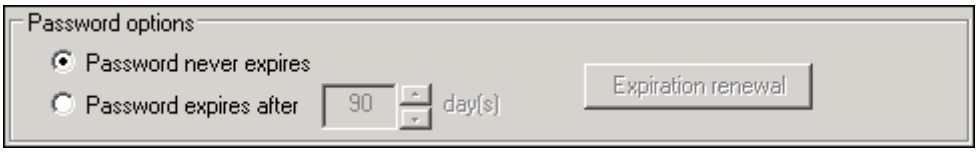


Fig. 83 Password options group field on the User management tab

Limiting the validity period of a password

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- You have the right user management.

1. Select the **User management** tab.
2. Click the **Password expires after** radio button (see Fig. 83, page 99).
3. Enter a value in the **day(s)** field to indicate how many days the password is to be valid.
4. Click Apply.
➔ The setting will be saved.

Extending the validity period of a password

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- You have the right user management.

1. Select the **User management** tab.
2. Click **Expiration renewal** (see Fig. 83, page 99).
3. Click **Apply**.
➔ The validity of the password will be extended by the number of days specified in the **day(s)** text field. The date from which the extension is calculated is the current one.

Removing the restriction of validity of a password

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- You have the right user management.

1. Select the **User management** tab.
2. Click the **Password never expires** radio button (see Fig. 83, page 99).
3. Click **Apply**.
➔ The setting will be saved.

13.3 Enabling password-protected start of the SISTORE MX NVS software

If password protection is enabled, a user name and password must be entered to start the SISTORE MX NVS software.

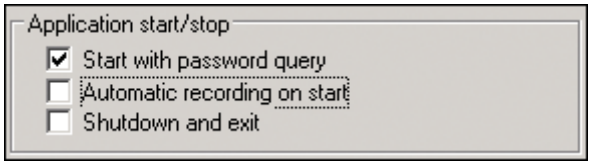


Fig. 84 Start with password query checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Start with password query** (see Fig. 84, page 100).
3. Click **Apply**.
➔ The setting will be saved.

13.4 Configuring the logbook

13.4.1 Enabling extended logbook entries

If this option is enabled, an entry will be written in the logbook during printing, saving of individual images or the export of sequences.

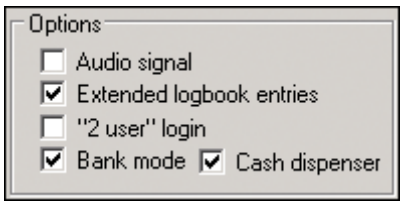


Fig. 85 Extended logbook entries checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Select the **Extended logbook entries** checkbox in the **Options** group field.
3. Click **Apply**.
➔ The setting will be saved.

13.4.2 Compressing logbook entries daily

Prerequisites:

- The SISTORE MX NVS application software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.

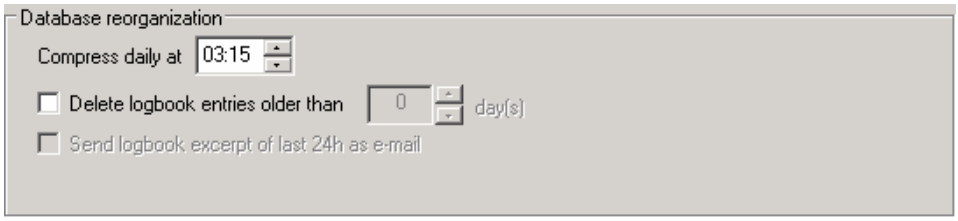


Fig. 86 **Database reorganization** group field on the **Database** tab

1. Select the **Database** tab.
2. Set the time at which the daily compression shall take place in the **Database reorganization** group field.
3. Click **Apply**.
   ➔ The settings will be saved.

13.4.3 Deleting logbook entries automatically

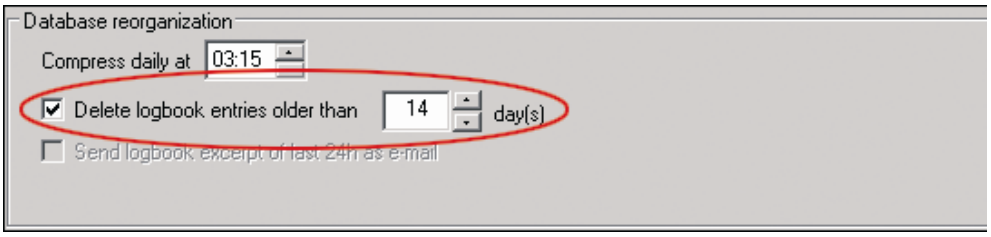


Fig. 87 Delete logbook entries checkbox on the Database tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Database** tab.
2. Mark the checkbox **Delete logbook entries**.
3. Enter a value in the **day(s)** text field.
4. Click **Apply**.
   ➔ The setting will be saved.

Note
These old logbook entries will be deleted when the next daily compression takes place (see Section 13.4.2: Compressing logbook entries daily).

13.4.4 Sending logbook excerpts automatically

This option is only available if the sending of e-mail is configured. See Section "Configuring e-mail notification", page 136.
If this option is enabled, SISTORE MX NVS will send an e-mail every 24 hours with an excerpt consisting of the entries of the last 24 hours from the logbook.

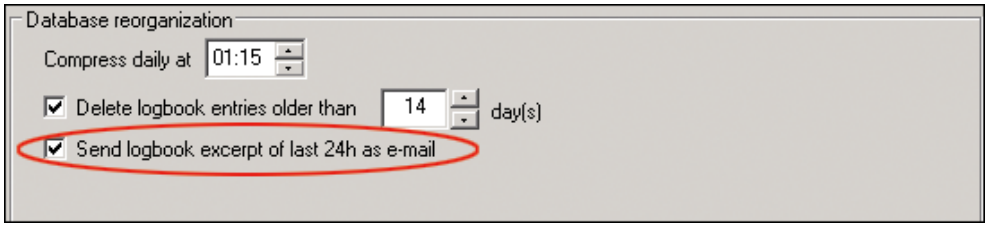


Fig. 88 Automatic sending of logbook excerpts on the Database tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Database** tab.
2. Mark the checkbox **Send logbook excerpt of last 24h as e-mail**.
3. Click **Apply**.
   ➔ The setting will be saved.

13.5 Enabling software triggering

NOTE:
The checkbox Enable software trigger is only available if bank mode is not enabled.

If this option is enabled, the SISTORE MX NVS software can communicate with other programs, such as IVM.

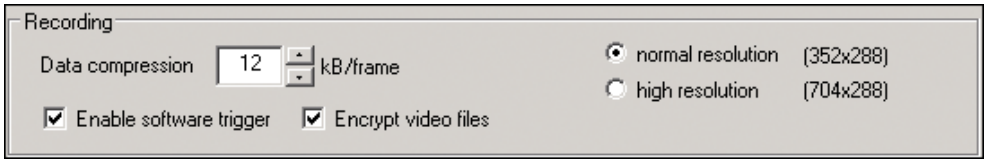


Fig. 89 Enable software trigger checkbox on the System tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Select the **Enable software trigger** checkbox in the **Recording** group field.
3. Click **Apply**.
   ➔ The setting will be saved.

13.6 Enabling operating panel control

NOTE:
The Operating console group field is only visible if the CKA 4810 or CKA 4820 driver is installed. Further information on this can be found in the SISTORE MX NVS Installation Manual.

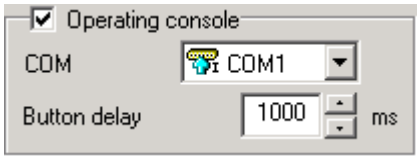


Fig. 90 Operating console group field on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Operating console** (see Fig. 90, page 103).
➔ The **Operating console** group field will be enabled.
3. Select the interface to which your operating panel is connected from the **COM** dropdown field.
4. Enter a value in milliseconds in the **Button delay** text field.
➔ If no keyboard input takes place within the specified time, the entry is considered complete.
5. Click **Apply**.
➔ Your settings will be saved.

14 Configuring multi-monitor mode

In order to use multi-monitor mode, the monitors must be configured in Windows: **Start > Control Panel > Display > Settings**. Please note that the configuration of the monitors in Windows can only be changed when the SISTORE MX NVS application software is closed.

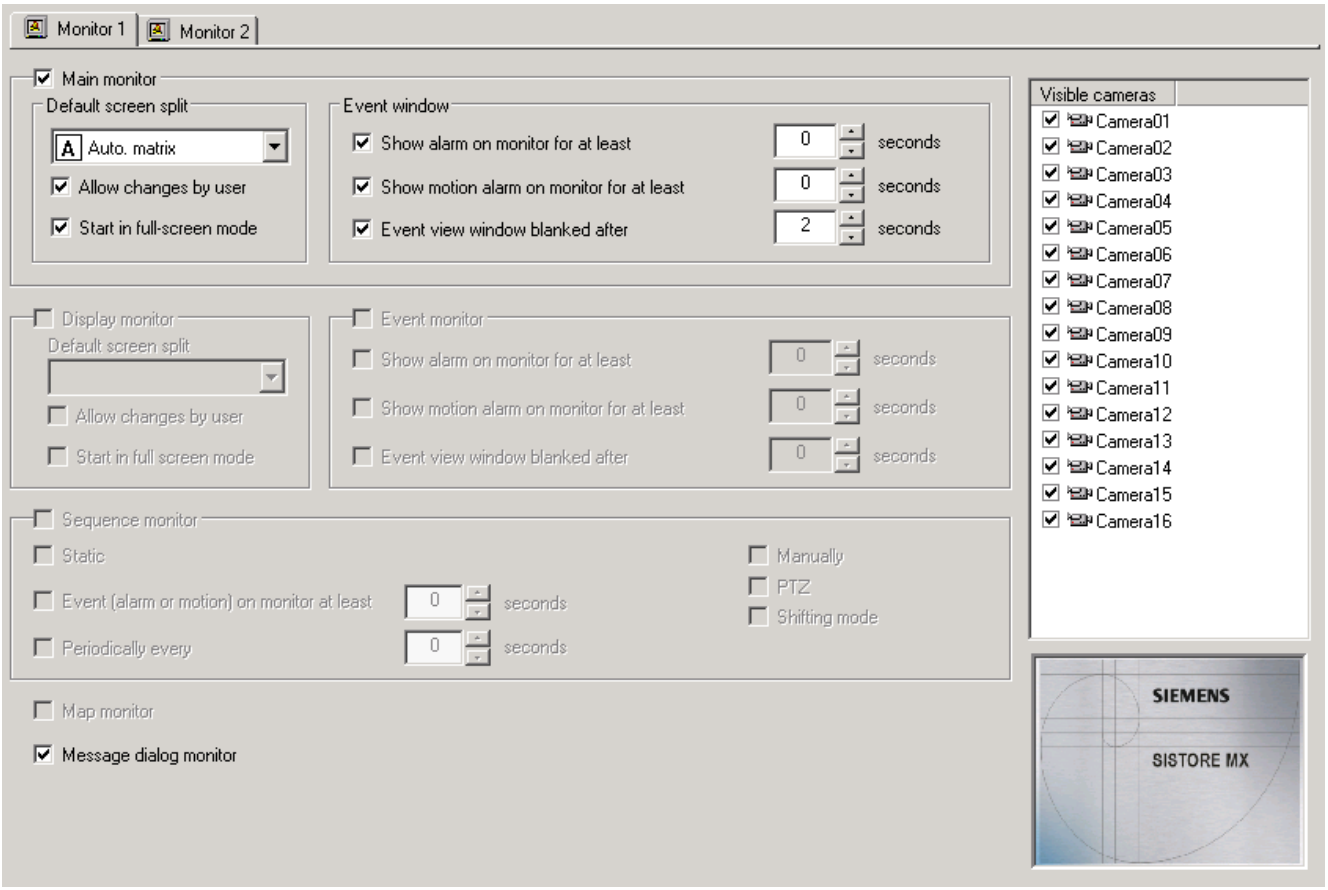


Fig. 91 SISTORE MX NVS – Configuration of multi-monitor mode with 2 monitors

In multi-monitor mode, the SISTORE MX NVS application software supports up to 4 monitors. The individual monitors can be configured in the following manner:

- as main monitor
  See Section 14.1 Configuring a monitor as the main monitor.
- as display monitor
  See Section 14.2 Configuring a monitor as a display monitor.
- as event monitor
  See Section 14.3 Configuring a monitor as an event monitor.
- as sequence monitor
  See Section 14.4 Configuring a monitor as a sequence monitor.
- as site plan monitor
  See Section 14.5 Configuring a monitor as a site plan monitor.
- as message dialog monitor
  See Section 14.6 Configuring a monitor as a message dialog monitor.

14.1 Configuring a monitor as the main monitor

The main monitor displays the operator interface of the application software. The application software can be configured and operated via this monitor.

IMPORTANT Exactly 1 monitor must be configured as the main monitor.

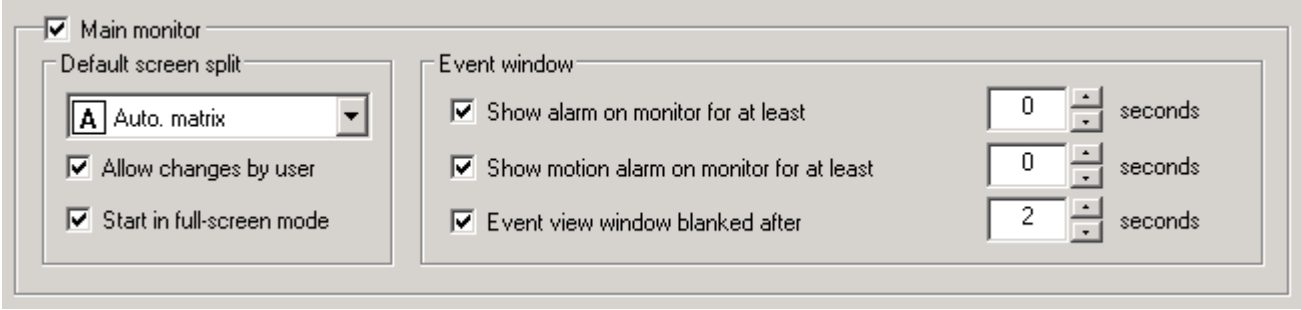


Fig. 92 Multi-monitor tab – Configuration of the main monitor

Prerequisite:

- The main monitor has not been configured yet.

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Main monitor**.
3. Select the desired view on the main monitor when the application software is started in the **Default screen split** list box.

Option	Meaning
Auto. matrix	The live images of all configured cameras will be displayed.
No display	No live images will be displayed until a user logs in.
<Number of cameras>	The live images of x cameras will be displayed.
Event view	The event view window is opened.
Map	The map is opened.

4. If the user is to be able to change the screen split during operation, mark the checkbox **Allow changes by user**.
➔ The buttons for changing the screen split will be enabled.
5. If the display area is to be shown on the full screen of the main monitor when the application software is started, mark the checkbox **Start in full screen mode**.

To exit full screen mode press **Esc**.

6. If you want to view events on the main monitor, mark the corresponding checkboxes and select the duration in seconds in the **Event window** group field:

Option	Meaning
Show alarm on monitor for at least … seconds	Minimum time for which an alarm event will be displayed. New alarm events will not be displayed during this time. You can select a time between 0 and 60 seconds. 0 seconds means that an image will be removed from the screen as soon as another alarm event occurs.
Show motion alarm on monitor for at least … seconds	Minimum time for which a motion alarm event will be displayed. New motion alarm events will not be displayed during this time. You can select a time between 0 and 60 seconds. 0 seconds means that an image will be removed from the screen as soon as another motion alarm event occurs.
Event view window blanked after … seconds	Period of time after which the event view window will be blanked. You can select a time between 2 and 300 seconds.

7. Select the cameras whose live images are to be displayed on the main monitor by marking the corresponding checkboxes in the **Visible cameras** list (see Fig. 91).
8. Click **Apply**.
   ➔ Your settings will be saved.

14.2 Configuring a monitor as a display monitor

The display monitor displays live images.

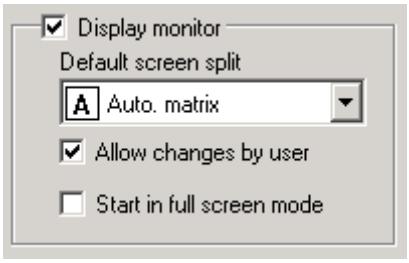


Fig. 93 Multi-monitor tab – Configuration of the display monitor

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Display monitor**.
3. Select the desired view on the display monitor when the application software is started in the **Default screen split** list box.

Option	Meaning
Auto. matrix	The live images of all configured cameras will be displayed.
No display	No live images will be displayed until a user logs in.
<Number of cameras>	The live images of x cameras will be displayed.
Event view	The event view window is opened.
Map	The map is opened.

4. If the user is to be able to change the screen split during operation, mark the checkbox **Allow changes by user**.
   ➔ The buttons for changing the screen split will be enabled.
5. If the display area is to be shown on the full screen of the display monitor when the application software is started, mark the checkbox **Start in full screen mode**.

To exit full screen mode press **Esc**.

6. Select the cameras whose live images are to be displayed on the display monitor by marking the corresponding checkboxes in the **Visible cameras** list (see Fig. 91).
7. Click **Apply**.
   ➔ Your settings will be saved.

14.3 Configuring a monitor as an event monitor

The event monitor displays events. An event can be either a movement or an alarm.

When an event monitor has been configured, it is no longer possible to display events on the main monitor.

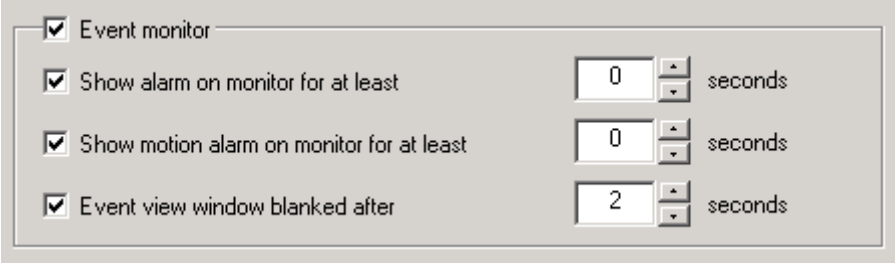


Fig. 94 Multi-monitor tab – Configuration of the event monitor

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Event monitor**.
3. Mark the corresponding checkboxes and enter the duration in seconds in the **Event monitor** group field:

Option	Meaning
Show alarm on monitor for at least … seconds	Minimum time for which an alarm event will be displayed. New alarm events will not be displayed during this time. You can select a time between 0 and 60 seconds. 0 seconds means that an image will be removed from the screen as soon as another alarm event occurs.
Show motion alarm on monitor for at least … seconds	Minimum time for which a motion alarm event will be displayed. New motion alarm events will not be displayed during this time. You can select a time between 0 and 60 seconds. 0 seconds means that an image will be removed from the screen as soon as another motion alarm event occurs.
Event view window blanked after … seconds	Period of time after which the event view window will be blanked. You can select a time between 2 and 300 seconds.

4. Select the cameras whose event images are to be displayed on the event monitor by marking the corresponding checkboxes in the **Visible cameras** list (see Fig. 91).
5. Click **Apply**.
➔ Your settings will be saved.

14.4 Configuring a monitor as a sequence monitor

On a sequence monitor, live images can be displayed in an automatic cycle, by event-based control, or by manual control.

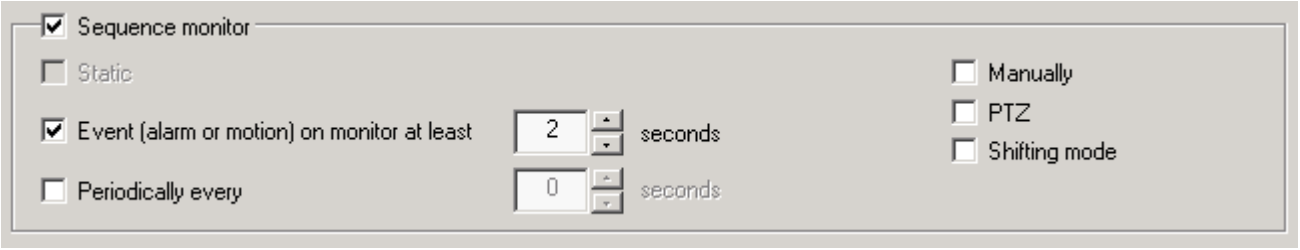


Fig. 95 Multi-monitor tab – Configuration of the sequence monitor

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Sequence monitor**.
3. Mark the corresponding checkboxes and enter the duration in seconds as necessary:

Option	Meaning
Static	A camera from the **Visible cameras** list is fixedly assigned to the sequence monitor. The live image of no other camera can be displayed on this monitor.
Manually	The fixed assignment of a camera to a monitor (by activating "Static“) can be changed using the context menu of the live image in the display mode. A camera can now be activated on another video output. It is also possible to activate a camera on one of the four video outputs via SISTORE RemoteView.
Event (alarm or motion) on monitor at least … seconds	Prerequisite: The checkbox **Camera to monitor output** on the **Recording** tab has been marked. See Section 16.4 Configuring recording modes. If an event occurs, the live image of the selected camera will be connected to the sequence monitor. This live image will be displayed at least for the set period of time even if there is an event on another camera.
PTZ	A PTZ camera is connected as soon as it is controlled.
Periodically every… seconds	Cameras can be selected from the **Visible cameras** list and their images be displayed successively on the sequence monitor. The selected cameras will be switched in a preset cycle. The dwell time can be set between 2 and 300 seconds.
Shifting mode	Prerequisite: Shifting mode has been configured for 2 sequence monitors. The current alarm image is displayed on the first sequence monitor. This alarm image will be shifted to the second sequence monitor when another alarm occurs. The new alarm image will be displayed on the first sequence monitor. If shifting mode is not activated, the alarm images will be displayed as the events occur on all sequence monitors simultaneously.

4. Click **Apply**.
➔ Your settings will be saved.

14.5 Configuring a monitor as a site plan monitor

On a site plan monitor, the site plan is displayed in full screen mode.

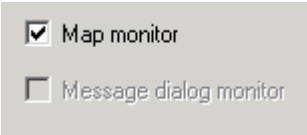


Fig. 96 Multi-monitor tab – Configuration of the site plan monitor

Prerequisite:
- A site plan has been configured. See Section 12 Map configuration.
- A site plan monitor has not been configured yet.

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Map monitor**.
3. Click **Apply**.
➔ The setting will be saved.

14.6 Configuring a monitor as a message dialog monitor

The message dialog monitor displays all pop-up dialogs. The main monitor can also be configured as a message dialog monitor.

IMPORTANT Exactly 1 monitor must be configured as a message dialog monitor.

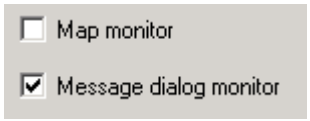


Fig. 97 Multi-monitor tab – Configuration of the message dialog monitor

Prerequisite:
- A message dialog monitor has not been configured yet.

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Message dialog monitor**.
3. Click **Apply**.
➔ The setting will be saved.

15 Configuring the user interface of the SISTORE MX NVS application software

15.1 Selecting the user interface language

Languages can be added to the SISTORE MX NVS software after installation. To do so, copy the corresponding language files with the DLL extension into the C:\Program Files\SIEMENS\SISTORE MX NVS directory.

Fig. 98 Language dropdown list on the System tab

Prerequisites:

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Select a language from the **Language** dropdown list (see Fig. 98, page 110). If you select the entry **automatic**, the SISTORE MX NVS software starts in the language set as the regional language in the operating system.
3. Confirm the message that follows with **OK**.
4. Click **OK**.
5. Answer **Yes** in the confirmation dialog.
   ➔ The setting will be saved and the SISTORE MX NVS software will close.
6. Start the SISTORE MX NVS software. See Section "Starting SISTORE MX NVS and logging in", page 17.
   ➔ The SISTORE MX NVS software now uses the selected language.

- To have the Windows dialogs (e.g. Print, Save AS…) displayed in another language, you must additionally change the language of the operating system in the Control Panel.
- To change the date and time format, make the desired settings in the Regional Options in the Control Panel.

15.2 Configuring the display area

15.2.1 Selecting the initial arrangement of the display area

In the **Default screen split** group field you can define whether the SISTORE MX NVS software shows a site plan, the event view or video images when starting or whether everything is hidden.

Fig. 99 Dropdown list in the Default screen split group field

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Select the desired view from the dropdown list in the **Default screen split** group field.
3. Click **Apply**.
➔ The setting will be saved.

15.2.2 Selecting the initial display mode

With the checkbox **Start in full screen mode** you can determine whether the display area of the SISTORE MX NVS software is shown on the full screen when the software is started. All control elements of the program window are hidden in full screen mode.

Fig. 100 Start in full screen mode checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Start in full screen mode**.
3. Click **Apply**.
➔ The setting will be saved.

Exiting full screen mode

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in display mode.
  See Section "Display mode", page 13.
- The display is in full screen mode.

1. Right-click in the background.
➔ The SISTORE MX NVS context menu will open.
2. Select the menu option **View**.
➔ The submenu will open.
3. Select the submenu option **Normal screen**.
➔ The display mode will be the normal display.
➔ The control elements of the program window will be shown.

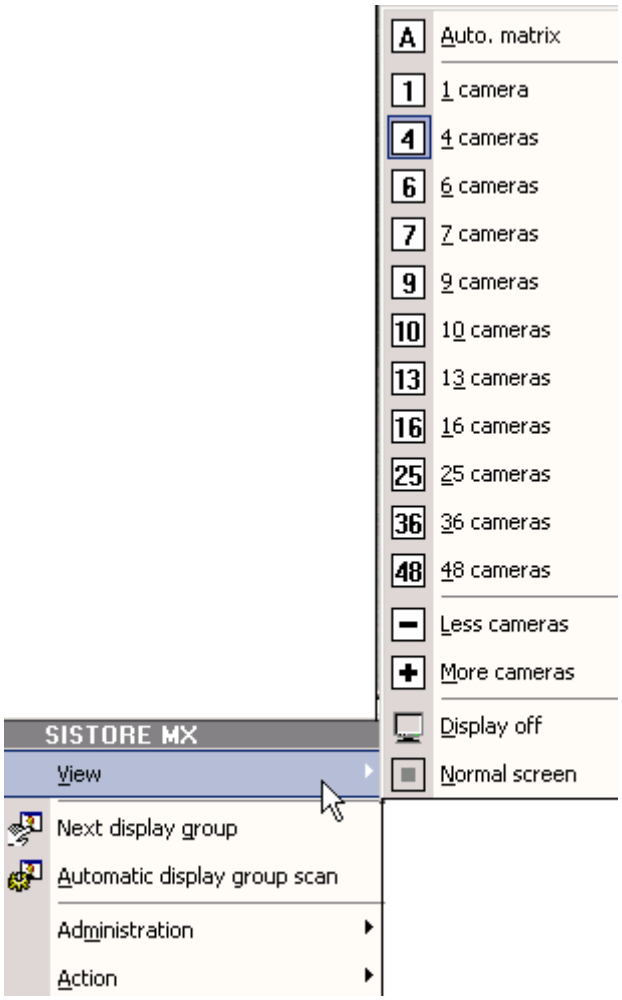


Fig. 101 SISTORE MX NVS context menu

15.2.3 Configuring the recording status display

In the **Record status display** group field, you can define whether the recording status is shown as a symbol or a symbol and text on the live image or is not shown.

Fig. 102 Live image with recording status display overlaid

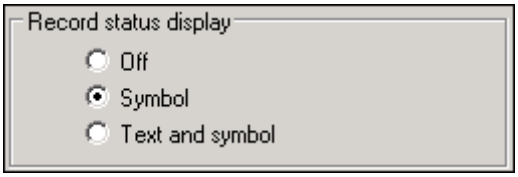


Fig. 103 Recording status display group field on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode. See Section "Opening configuration mode", page 18.

Note
You can observe the changes you make on the live image.

1. Select the **System** tab.
2. Select the desired option in the **Record status display**.
3. Click **Apply**.
   ➔ The setting will be saved.

15.2.4 Configuring the live image change interval

The **Display mode** group field refers **only** to analog video monitors.

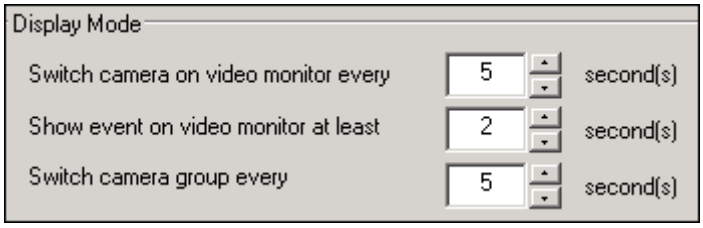


Fig. 104 Display mode group field on the System tab

Prerequisites

- At least one LAN camera has been configured and is connected to the SISTORE MX NVS server. See Section "General information on LAN cameras", page 45.
- The SISTORE MX NVS software has been started. See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode. See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. In the field **Switch camera on video monitor every** select the period after which the view is switched to the next camera.
3. In the field **Show event on monitor at least** choose how long live images are to be shown during an event.
4. Select the period after which the next camera group will be displayed in the box **Switch camera group every**.

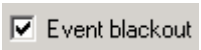
Switching times can be selected between 2 and 600 seconds.

5. Click **Apply**.
   ➔ The setting will be saved.

15.2.5 Blanking the event view window

When this option is activated, the event view window will be blanked after the preset post-event recording time has expired (see Section 16.4 Configuring recording modes). This means that the camera picture is displayed only during the alarm and the preset post-event recording time.

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Event view window blanked after**.



3. Set the number of seconds after which the event view window is to be blanked using the arrow buttons.
4. Click **Apply**.
   ➔ Your settings will be saved.

15.2.6 Enabling frame rate display

The **Display framerate** checkbox can be used to determine whether the frame rate is shown on the live image. This function is only for checking the frame rate, and in contrast to the name of the camera or the date and time, it is not saved.

The value shown can deviate from the actual frame rate.
The frame rate display appears only after recording 10 frames of the live image, after which a value is calculated. At a slow frame rate this can require considerable time.

Fig. 105 Live image with frame rate shown

Fig. 106 Display framerate checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Display framerate**.
3. Click **Apply**.
➔ The setting will be saved.

15.2.7 Showing motions

By marking the checkbox **Show motions** you can define that moving objects will be marked in the live image. This function is only for checking the motion detection parameters **sensitivity** and **object size**, and is not saved.

Prerequisite:

- Motion detection is enabled for the selected camera. See Section 8.1 Activating motion detection via SISTORE MX NVS.

It is not necessary to stop the recording process.

1. Select the **System** tab.
2. Mark the checkbox **Show motion**.
3. Click **OK**.
   ➔ The setting will be saved.

15.2.8 Configuring text overlay for a LAN camera

In the **Text overlay** group field you can define whether the name of the camera, the time and the date are shown in the video image of the SISTORE MX NVS software. Furthermore, the position of the overlay and the font and background colour can be defined. To facilitate an optimal overview, it is recommended to show the text at the same position in all video images.

Fig. 107 Live image with overlaid camera name, time and date

Prerequisites

- At least one LAN camera is connected.
  See Section "General information on LAN cameras", page 45.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

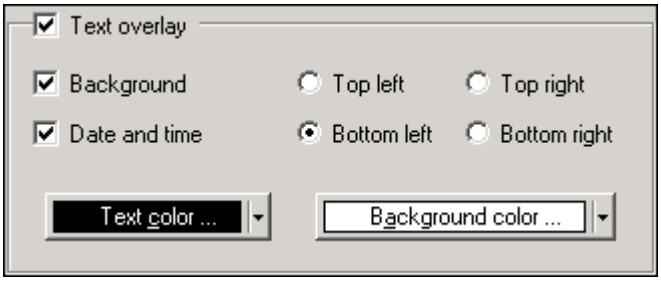


Fig. 108 Text overlay group field on the LAN cameras tab

1. Select the **LAN cameras** tab.
2. In the camera list, select the camera for which you want to overlay the text on the video image.
3. Mark the checkbox **Text overlay**.
➔ The camera name will be overlaid.
4. Mark the checkbox **Background**.
➔ The camera name will be given a white background.
5. Mark the checkbox **Date and time**.
➔ The date and time will be overlaid.

There are four radio button options for determining the position of the text.

6. Select the desired option.
➔ The text will be overlaid at the position selected.
7. Select the desired colour from the **Text color…** selection field.
➔ The text will be overlaid in the colour selected.
8. Select the desired colour from the **Background color…** selection field.
➔ The background of the overlay will be shown in the colour selected.
9. Click **Apply**.
➔ The setting will be saved.

15.3 Configuring system messages

Using the **Audio signal** checkbox, you can determine whether an audio signal is given when a system message appears. Furthermore, it determines whether the user can switch audio signals on and off in the display mode.

Fig. 109 Audio signal checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Audio signal**.
3. Click **Apply**.
➔ The setting will be saved.

15.4 Showing the on-screen keyboard

The **On-screen keyboard** checkbox can be used to determine whether the **On-screen keyboard** window is shown. This virtual keyboard serves as a keyboard replacement for systems without an external keyboard. It can be operated with the mouse.

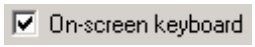


Fig. 110 On-screen keyboard checkbox on the System tab

Prerequisites:

- The SISTORE MX NVS application software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **On-screen keyboard**.
➔ The **On-screen keyboard** window will appear.

On-screen keyboard
Esc F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 Ins Del
PgUp
Tab-> Q W E R T Z U I O P PgDn
Caps A S D F G H J K L Enter Home
Shift Y X C V B N M Shift End
Ctrl Wnd Alt

Fig. 111 On-screen keyboard window

3. Click **Apply**.
➔ The setting will be saved.

15.5 Enabling automatic logout

In the **Auto logout** group field you can determine whether a user is automatically logged out after a specified period of inactivity.

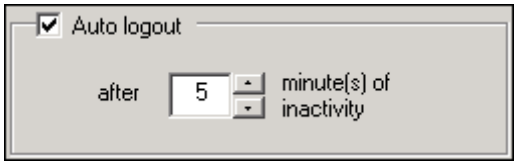


Fig. 112 Auto logout group field on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Auto logout**.

3. In the **minute(s) of inactivity** field, specify the time after which the automatic logout is to occur.
4. Click **Apply**.
   ➔ The setting will be saved.

Before the user is automatically logged off, the lock icon in the status bar will flash for one minute. If the user performs an action during this time, the icon will stop flashing.

15.6 Keeping the SISTORE MX NVS application software in the foreground

With the checkbox **Always in foreground** you can determine whether the SISTORE MX NVS software is to be shown in the foreground at all times. This prevents other program windows from covering the SISTORE MX NVS software.

Fig. 113 Always in foreground checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Always in foreground**.
3. Click **Apply**.
   ➔ The setting will be saved.

16 Recording configuration

16.1 Enabling automatic recording on start

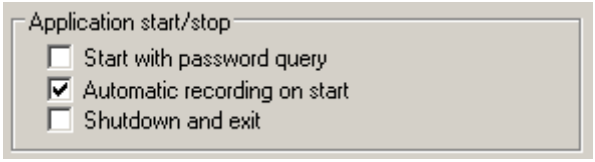


Fig. 114 Automatic recording on start checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Automatic recording on start**.
3. Click **Apply**.
➔ The setting will be saved.

16.2 Enabling software triggering

If the software triggering function is enabled, you can operate SISTORE MX NVS from a video management system, such as IVM.

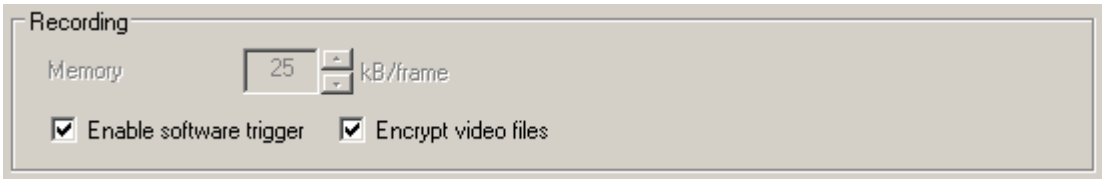


Fig. 115 Enable software trigger checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Enable software trigger** (see Fig. 115, page 120).
3. Click **Apply**.
➔ The setting will be saved.
➔ An additional sub-tab **Software trigger** is now available in the **Recording** tab.

16.3 Enabling video encryption

If video encryption is enabled, the recordings will be saved in an encrypted format. Encrypted recordings cannot be played back with an ordinary video playback program, but instead require the SISTORE Player for viewing. Video encryption also affects the export of recordings.
Encrypted recordings have the file extension k26; unencrypted recordings have the file extension avi.

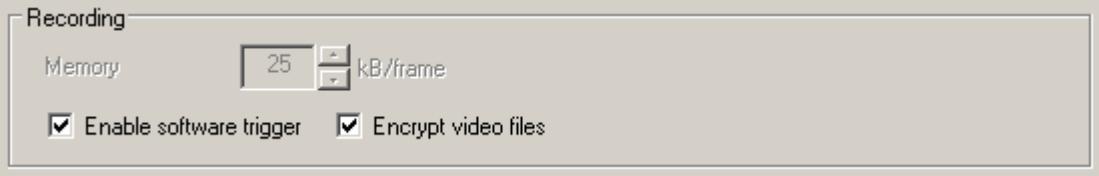


Fig. 116 Encrypt video files checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started. See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode. See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Encrypt video files** (see Fig. 116, page 121).
3. Click **Apply**.
➔ The setting will be saved.

16.4 Configuring recording modes

16.4.1 General information about recording modes

On the **Recording** tab there are five sub-tabs, each of which corresponds to a recording mode:

Recording mode/Sub-tab	Visibility	Function
Long-time recording	Always visible	Continuous recording of the live image
Motion	Only visible if motion detection is enabled for at least one camera. See Section "Configuring motion detection", page 58.	Recording of the live image if motion is detected
Alarm input	Only visible if at least one alarm input with normal priority is configured. See Section "Configuring alarm inputs", page 74.	Recording of the live image in case of an alarm with normal priority
Priority alarm	Only visible if at least one alarm input is configured as a priority alarm. See Section "Configuring alarm inputs", page 74.	Recording of the live image in case of a priority alarm
Software trigger	Only visible if software control is enabled. See Section "Enabling software triggering", page 102.	Recording of the live image with a software trigger
Cash box	Only visible if a cash box has been assigned to the camera. See for further information. The **Cash box** mode has a higher priority than **Motion** but lower than **Alarm**.	Recording of the live image upon transmission ● of an alarm filter word ● of a record if the camera is making no other recording

Tab. 4 Overview of the recording modes

The recording modes can
- be configured separately for each camera
- be combined with one another (see Section "Combination example for recording modes", page 125).

The recording settings can be transferred easily to other cameras. See Section "Transferring recording settings", page 126.

The following **colours in the time table** have been assigned to the recording modes:
- Blue: Long-time recording
- Green: Motion
- Red: Alarm input

No colour is assigned to the Priority alarm mode; it is always active if at least one alarm input is configured as a priority alarm.
There is also no colour assigned to the Software trigger recording mode; it is always active if software control is enabled.

You have the following setting options in the recording modes:

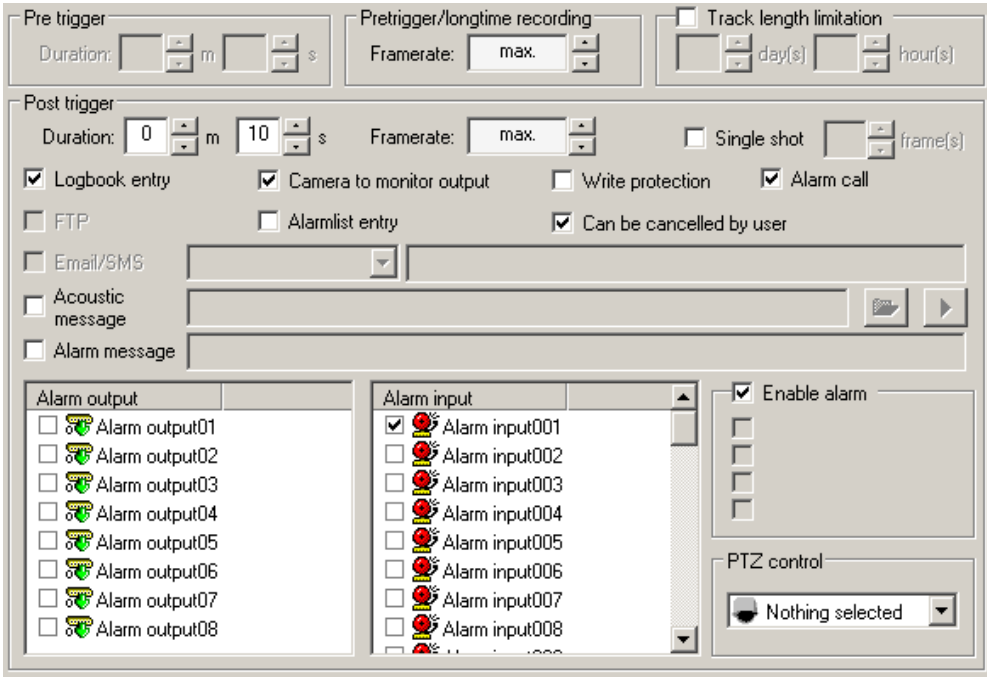


Fig. 117 Control elements on the Recording tab

Setting	Function	Note
Pre-trigger Duration	The period prior to an event (movement, alarm or software trigger) which is recorded after the event occurs.	Only available ● in the recording modes motion, alarm input, priority alarm and software trigger ● if long-time recording is not enabled for all time segments ● if the Single shot checkbox is not marked.
Pre-trigger / long-time recording Frame rate	The frame rate at which the pre-alarm and long-time recording is to be saved.	Applies to all recording modes of a camera; it cannot be set differently for the various recording modes. Software trigger We recommend setting the frame rate of cash box cameras to 2.0/s.
Track length limitation	The limitation of the hard drive capacity taken up by a camera. The SISTORE MX NVS software checks the total recording duration of the camera every hour; if it exceeds the track length duration, older recordings for this camera will be overwritten.	Write-protected recordings will not be overwritten and can thus be longer than the track length limitation setting. Use the track length limitation if you want to prioritize cameras: limit the recording duration of less important cameras in order to keep more hard drive capacity free for more important cameras.
Post-trigger Duration	The period which is recorded after an event.	Only available ● in the recording modes motion, alarm input, priority alarm and software trigger ● if the Single shot checkbox is not marked. If another event is detected during the post-trigger period, it is extended by the value set. At least 10 frames will always be recorded. The post-trigger period can also be controlled via software (such as IVM); in this case, the software control settings take priority over the settings of the SISTORE MX NVS software.

Setting	Function	Note
Frame rate	The frame rate at which the post-alarm recordings are to be saved.	Only available ● in the recording modes alarm input, priority alarm and software trigger ● if the Single shot checkbox is not marked. ● Software trigger We recommend setting the frame rate of cash box cameras to 4.0/s.
Single shot	Instead of a video sequence, only up to 5 single images will be recorded. These individual images will be recorded at the maximum frame rate of the camera.	Only available in the recording modes alarm input, priority alarm, and software trigger.
Logbook entry	When an event occurs, an entry will be written in the logbook.	Only available in the recording modes alarm input, priority alarm and software trigger and suspicion
Camera to monitor output	If an event occurs, the live image of the selected camera will be activated on a monitor.	Only available ● for analog cameras ● in the recording modes motion, alarm input, priority alarm and software trigger ● if the checkbox External video monitor on the Cameras tab is marked for the camera affected.
Write protection	If enabled, the recordings of the affected camera cannot be overwritten.	Only available in the recording modes alarm input, priority alarm and software trigger.
Alarm call	In case of an event, a connection will be made to a SISTORE RemoteView client and the live image of the selected camera is shown there.	Only available ● in the recording modes motion, alarm input and priority alarm ● if the connection is configured on the Alarm connection tab (see "Configuring the alarm connection", page 143). The login to the SISTORE RemoteView client takes place automatically.
Alarm list entry	When an alarm occurs, a list of the incoming alarm messages can be displayed at the left edge of the screen.	Only available in the recording modes alarm input and software trigger.
Can be cancelled by user	When the function alarm message is activated, the user can cancel an alarm after having acknowledged the alarm message.	Only available in the recording mode alarm input.
FTP	In case of an alarm, the alarm message will be stored as an MSG file and an alarm image as a JPEG in the root directory on the FTP server.	Only available ● in the recording modes motion, alarm input, priority alarm and suspicion ● if an FTP server is configured on the FTP tab.
E-mail/SMS	When an event occurs, the text entered will be sent by e-mail or SMS.	Only available ● in the recording modes alarm input and priority alarm ● if e-mail and/or SMS delivery is configured on the E-mail and SMS tab (see "Configuring e-mail notification", page 136 or "Configuring SMS notification", page 140). The following variables can be used in the text: ● %C = camera name ● %X = date and time of the start of the event
Acoustic message	The acoustic signal selected is played when an event occurs.	Only available in the recording modes motion, alarm input and priority alarm.

Setting	Function	Note
Alarm message	The text entered will be shown on the screen when an event occurs.	Only available in the recording modes motion, alarm input and priority alarm.
Alarm output	When an event occurs, a signal will be sent via the selected alarm outputs.	Only available in the recording modes motion, alarm input, priority alarm and software trigger This function can be used to control additional devices.
Alarm input	When an assigned alarm input is triggered, the live image of the camera will be recorded even if the camera itself has detected no movement.	Only available in the recording modes alarm input and priority alarm.
Enable alarm	Recording the live image of the selected camera can be linked to additional conditions here.	Only available in the recording modes motion, alarm input, and priority alarm. All inputs to which the enable alarm function has been assigned can be selected as a condition.
PTZ control	During an event the selected camera moves to the selected position.	Only available ● in the recording modes alarm input, priority alarm and software trigger ● if the selected camera is a PTZ camera. At least one position must be saved for the particular camera (see "Configuring automatic camera positioning", page 53 for PTZ LAN cameras). Each alarm input can be assigned a position.

Tab. 5 Setting options on the Recording tab

Pretrigger: Recording of live images that immediately precede an alarm.
Posttrigger: Recording of live images that occurs immediately after an alarm.

16.4.2 Combination example for recording modes

You want to record the live image of a camera continuously at a frame rate of 10 fps. Additionally for Saturdays and Sundays, if a movement is detected the live image should be recorded during the movement and up to 1 minute thereafter at 20 fps. **To do so, proceed as follows:**

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- Motion detection is enabled for at least one camera.
  See Section "Configuring time control", page 79.

1. Select the **Recording** tab.
2. Select a camera for which motion detection is enabled from the camera list.
3. Select the **Longtime recording** sub-tab.
4. Select all time segments in the time table.
   See Section "Configuring time control", page 79.
5. In the **Pretrigger/longtime recording** group field under **Framerate**, select the value 10.0/s.
6. Select the **Motion** sub-tab.
7. Select all time segments for Saturday and Sunday.
8. In the **Pretrigger/longtime recording** group field under **Framerate**, select the value 20.0/s.

9. In the **Posttrigger** group field, enter the value **1** in the text field **Duration: m** and the value **0** in the text field **s**.
10. Click **Apply**.
    ➔ Your settings will be saved. The time table will appear as follows:

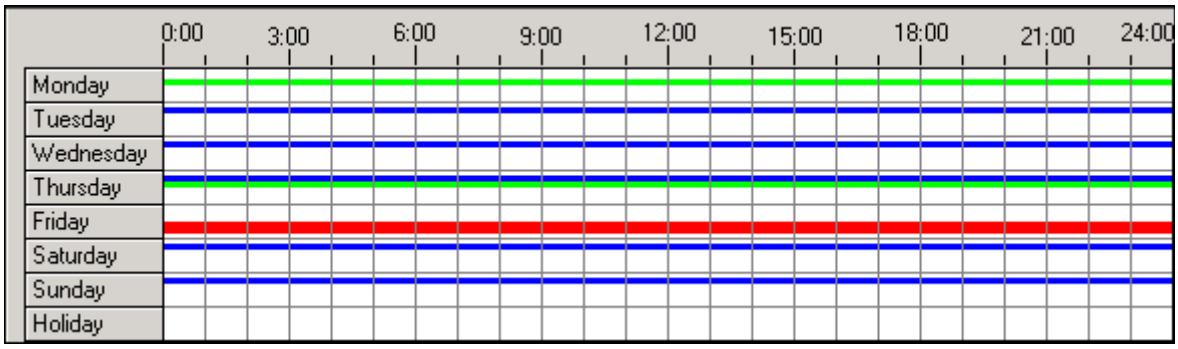


Fig. 118 Time table on the Recording tab

16.4.3 Transferring recording settings

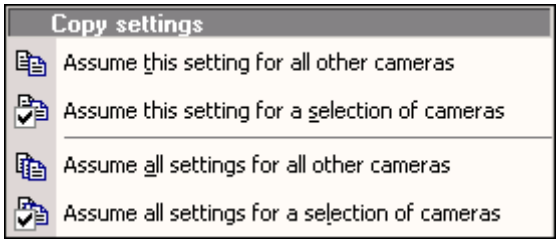
In the **Copy settings** context menu, you can specify that a certain number of recording settings are transferred from a camera to one or more other cameras.

Prerequisites

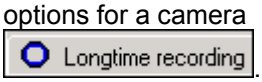
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the Recording tab.
2. Right click on a configured camera in the camera list.

➔ The **Copy settings** context menu will open.

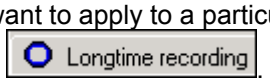

Copy settings
Assume this setting for all other cameras
Assume this setting for a selection of cameras
Assume all settings for all other cameras
Assume all settings for a selection of cameras

You have four options:

Applying a setting to all other cameras
Prerequisite:
You are on the cameras list and have opened the possible options for a camera (+); now right-click on an option, e.g. **Longtime recording** 

.

1. Select **Assume this setting for all other cameras**.
➔ The **Copy settings** context menu will close.
➔ The setting will be saved.

Applying a setting to a selection of cameras
Prerequisite
You are on the sub-tab for the setting which you want to apply to a particular selection of cameras, such as long-time recording 

.
1. Select **Assume this setting for a selection of cameras**.
The **Select cameras** window will appear.

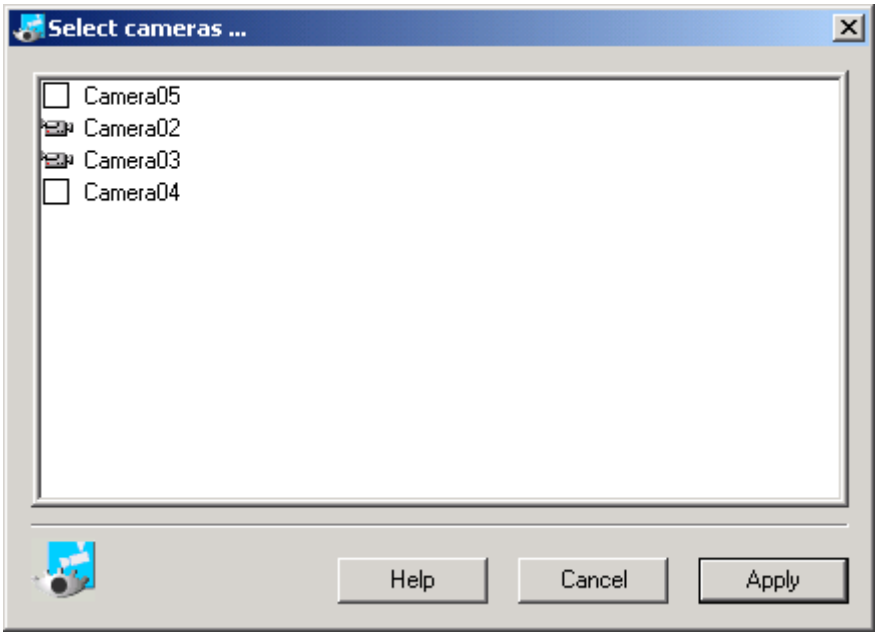


Fig. 119 Select cameras dialog on the Recording tab

2. Mark the checkboxes in front of the desired cameras

.
3. Click **Apply**.
➔ The **Select cameras** window will close.
➔ The setting will be saved.

Applying all settings to all other cameras
1. Select **Assume all settings for a selection of cameras**.
➔ The **Copy settings** context menu will close.
➔ Your settings will be saved.

Applying all settings to a selection of cameras
1. Select **Assume all settings for a selection of cameras**.
➔ The **Select cameras** window will appear.
2. Mark the checkboxes in front of the desired cameras

.
3. Click **Apply**.
➔ The **Select cameras** window will close.
➔ The setting will be saved.

16.5 Configuring the overwriting of recordings

Deactivating overwrite mode

With the checkbox **Deactivate overwrite mode – stop recording** you can configure the SISTORE MX NVS software to stop saving recordings as soon as the hard drive capacity is exhausted. This means that no recordings will be deleted on the hard drive to make room for further recordings.

WARNING	If the hard drive capacity is exhausted, the message that **recording has stopped because no storage space is available** will appear on the screen and an entry will be made in the logbook. Furthermore, the **Error** LED will be lit. To switch off the indication manually, you must first make space available on the hard drive by deleting old recordings (see the user guide).

NOTE:
This option is not available if bank mode is enabled.

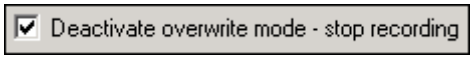


Fig. 120 Deactivate overwrite mode - stop recording checkbox

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Database** tab.
2. Mark the checkbox **Deactivate overwrite mode - stop recording**.
3. Click **Apply**.
➔ The setting will be saved.

Warning if overwriting relevant data

With the **day(s)** field you can define a period in which all recordings are saved and not automatically overwritten. With the checkbox **Warning if overwriting relevant data within** you can configure a warning message to appear before the SISTORE MX NVS software deletes a recording from this period. This warning makes you aware that the SISTORE MX NVS software requires more hard drive capacity or a higher image compression.

NOTE:
If you delete a recording from this period manually, no warning message will be shown.

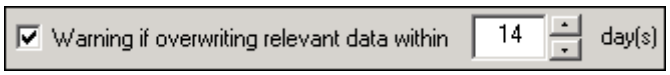


Fig. 121 Warning if overwriting relevant data within checkbox

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Database** tab.
2. Mark the checkbox **Warning if overwriting relevant data within**.
3. In the **day(s)** field, select the number of days that are to be saved and not automatically overwritten.
4. Click **Apply**.
   ➔ Your settings will be saved.

17 Configuring data storage

17.1 General information about the storage location

The SISTORE MX NVS application software supports recording on separate hard drives and hard drive partitions.

DANGER	● Ensure that there is sufficient storage space on the target drive. ● Do not use external USB hard drives, since this can lead to data loss. ● Do not use CD/DVD writers as "substitute" hard drives, since these are not supported by the SISTORE MX NVS software.

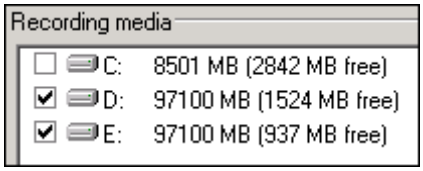
Drives enabled for recording

After activating the bank and automated teller operation (cash box mode), the drive **D:** is reserved for recording cash box image files and is no longer available.

Use of network drives

All network drives for which the user has rights will be shown in the list of drives. As soon as a network drive is selected, the local drives serve only as replacement drives for if the network drive fails. If the network drive becomes available again after it has been unavailable, recording will take place again on the network drive after the next file change.

Network drives must generally be mapped, i.e. access to a network drive can only occur via a drive letter and not via a shared name. Ensure that the network drive is sufficiently fast and has enough bandwidth.



Drive list in the Recording media group field

17.2 Selecting a storage location for recordings

In the **Recording media** group field, you can specify the drives on which the video data are to be saved.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. In the **Recording media** group field, select the drives on which you want to save the video data.
3. Click **Apply**.
   ➔ The setting will be saved.

Using maximum hard drive capacity

In order to ensure system stability, 15 % of the hard drive capacity is reserved for the operating system. By marking the checkbox **Use max. hard drive storage capacity** you can deactivate this limitation. However, this can lead to an unstable and unusable system. We recommend not setting this option.

After an update this option is set and must be manually reset by the user.

Fig. 122 Use max. hard disk storage capacity checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. If you want maximum usage of the hard drive capacity: Mark the checkbox **Use max. hard disk storage capacity**.
3. Click **Apply**.
   The setting will be saved.

17.3 Selecting a storage location for the database

In the **Database directory** group field, you can choose another directory if the database is to be stored somewhere other than in the SISTORE MX main directory.

Fig. 123 Database directory group field on the Database tab

Prerequisites:

- The SISTORE MX NVS application software has been started. See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.

1. Select the **Database** tab.
2. Mark the checkbox **Database directory**.
   ➔ The **SISTORE MX** dialog opens.

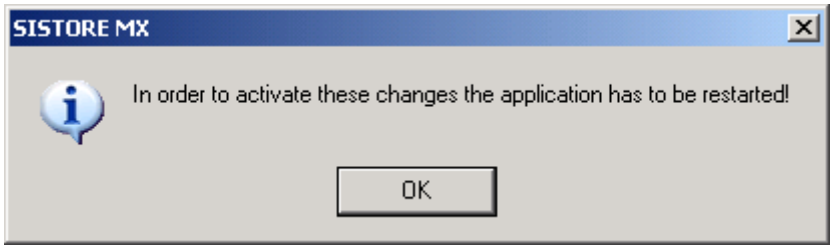


Fig. 124 SISTORE MX dialog

3. Click **OK**.
4. Click the **Open** button .
   ➔ The **Select directory** dialog will open.
5. Select the desired directory.
6. Click **Select**.
   ➔ The **Select directory** dialog will close.
7. Click **OK**.
   ➔ The **SISTORE MX configuration** window will close.
   ➔ You will be in display mode.
8. Answer **Yes** in the confirmation dialog.
   ➔ The SISTORE MX NVS application software will close.

NOTE:
If you wait longer than 10 seconds, the SISTORE MX NVS application software will close automatically.

9. Start the SISTORE MX NVS application software.

17.4 Selecting a storage location for backup

In the **Backup** group field, you can specify the drives on which the backup will be saved. The SISTORE MX NVS software creates a new directory with each backup in which a copy of the database is saved. The directory will be named after the starting point of the backup:
YYYY-MM-DD-HH-MM-SS

YYYY	year
MM	month
DD	day
HH	hour
MM	minute
SS	second

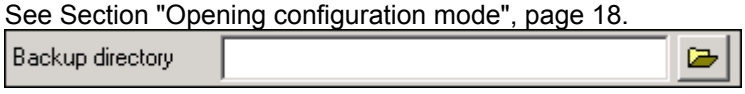
A dedicated subdirectory will be created for each camera.

Note
If you are backing up recordings that are write-protected (see Section 16.4: Configuring recording modes), the write protection will be removed automatically after the backup is finished. These recordings can now be deleted or overwritten.

CAUTION Ensure that there is sufficient storage space on the target drive. See Section "General information about the storage location", page 130.

In order not to affect the system performance too much the priority of the backup process is lower than the priority of other processes. With a higher priority, it would not be possible to record and play back at the same time. The backup process takes a long time due to its low priority. An incremental backup should be complete within 24 hours.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.



1. Select the **Database** tab.
2. Mark the checkbox **Backup**.
3. Click the **Open** button .
   ➔ The **Select directory** dialog will open.
4. Select the desired directory.
5. Click **Select**.
   ➔ The **Select directory** dialog will close.
6. Click **Apply**.
   ➔ The setting will be saved.

17.5 Removing write protection

You can configure that the write protection of recordings will be automatically removed after the backup is finished. More information on write protection can be found in Section 16.4 Configuring recording modes and in the SISTORE MX NVS User Manual.

1. Select the **Database** tab.
2. Mark the checkbox **Remove overwrite protection**.
   ➔ The recordings can be overwritten or deleted after the backup is finished.

17.6 Clearing the backup directory

With the checkbox **Clear directory before**, you can specify that all subdirectories of the backup directory be deleted.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
  The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

Fig. 125 Clear directory before checkbox on the Database tab

1. Select the **Database** tab.
2. Mark the checkbox **Backup**.
3. Mark the checkbox **Clear directory before**.
4. Click **Apply**.
   ➔ The setting will be saved.

17.7 Choosing the backup schedule

In order not to affect the system performance too much the priority of the backup process is lower than the priority of other processes. With a higher priority, it would not be possible to record and play back at the same time. The backup process takes a long time due to its low priority. An incremental backup should be complete within 24 hours.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

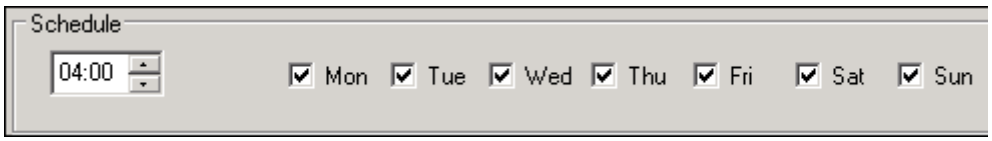


Fig. 126 Schedule group field on the Database tab

1. Select the **Database** tab.
2. Mark the checkbox **Backup**.

3. Select the time at which the backup is to take place in the **time** field.
4. Mark the checkboxes for the days on which the backup is to be performed.
5. Click **Apply**.
The setting will be saved.

17.8 Selecting the type of recordings for backup

In the **Backup** group field, you can specify whether a complete backup or an incremental backup is to be performed.

Complete	All data will be saved. The backup can take a lot of time and require a lot of storage space.
Incremental	All data generated since the last backup are saved.

In order not to affect the system performance too much the priority of the backup process is lower than the priority of other processes. With a higher priority, it would not be possible to record and play back at the same time. The backup process takes a long time due to its low priority. An incremental backup should be complete within 24 hours.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

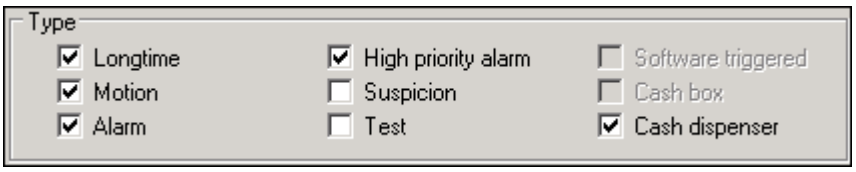
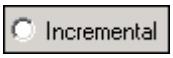


Fig. 127 Type group field on the Database tab

1. Select the **Database** tab.
2. Mark the checkbox **Backup**.
3. You have two options:
- Select the radio button **Complete** if you want to save all the data. The backup can take a lot of time and require a lot of storage space.
  – OR –
- Select the radio button **Incremental**  if you want to save all the data generated since the last backup.

4. Mark the checkboxes of the recording types you want to save in the backup.
5. Click **Cameras...** .
➔ The **Select cameras** window will appear.
6. Select the cameras the recordings of which you want to save in the backup.
7. Click **Select**.
➔ The **Select cameras** window will close.
8. Click **Apply**.
➔ The settings will be saved.

18 Configuring alarm response

18.1 Configuring e-mail notification

18.1.1 Enabling e-mail notification

With the checkbox **Send e-mail** you can specify that an e-mail be sent if a warning or problem occurs.

An e-mail is sent in the case of the following problems:	
Camera is missing / available again	Hard drive full, recording stopped
UPS reports power failure / power supply restored	Failure of a hard drive
Hard drive online again after failure	Relevant data overwritten
Recording could not be started	SISTORE MX not properly closed
Fatal recording error	

NOTE:
In case of a problem, only the main recipient will be notified.

Sending of these messages can take place via network/DSL or an installed modem/ISDN. For the network option an SMTP mail server must be available on the network.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Send e-mail**.

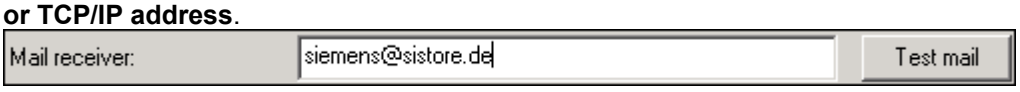
3. Select the **E-mail and SMS** tab.
4. Mark the checkbox **Enable e-mail/SMS notification**.

5. Click **Apply**.
➔ Your settings will be saved.

18.1.2 Setting notification via the SMTP server

Prerequisites
- The SISTORE MX NVS software has been started.
- See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
- See Section "Opening configuration mode", page 18.

1. Select the **E-mail and SMS** tab.
2. Enter the IP address or name of the outgoing mail server in the text field **Name or TCP/IP address**.



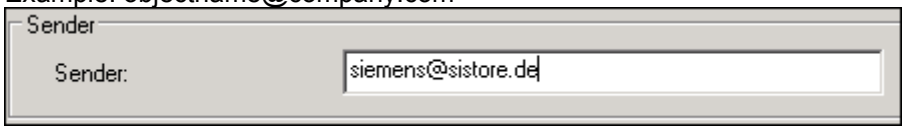
This is either
- the IP address of the mail server available on the network
  or
- the IP address or name of an SMTP server of a service provider
  or
- the IP address or name of an ESMTP server of a service provider

Example: 123.45.67.8 or mail.providername.com
The fields **User name** and **Password** must only be filled out if an ESMTP server is used.

3. Enter the user name for the ESMTP server in the **User name** text field.

4. Enter the password for the ESMTP server in the **Password** text field.

5. Enter the object name or SISTORE MX NVS server name in the e-mail address format in the **Sender** text field.
Example: objectname@company.com



Note
If this information is not available, contact your network administrator or Internet service provider.

6. Click **Apply**.
➔ The setting will be saved.

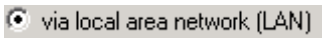
18.1.3 Configuring the connection to the SMTP server

In the **Connection to mail server** group field, you can determine whether the connection to the SMTP server takes place via a mail server on the local network or via a dial-in connection (RAS).

NOTE:
- RAS connections must be configured beforehand via the operating system.
- Please ensure that the RAS server service does not use the same ISDN device as the SISTORE MX NVS, because otherwise no connection to the SISTORE MX NVS server will take place.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **E-mail and SMS** tab.
You have two options to specify the connection to the SMTP server:
2. Select the option **Connect via LAN**.



– OR –
Click the radio button **via remote access service (RAS)**.

3. Select the desired connection from the dropdown list.
4. Click the **RAS manager** button.
➔ The **Network connection** window will appear.
5. Select the desired connection or add a new connection.
6. If you have added an RAS connection or renamed one: close the **Network connection** window and re-open it.
➔ The newly added RAS connection will be shown.
7. Select this connection.

NOTE:
Give the RAS connection of an imported configuration and the RAS configurations of the original device the same names.

8. Click **Apply**.
➔ The setting will be saved.

18.1.4 Entering e-mail recipient data

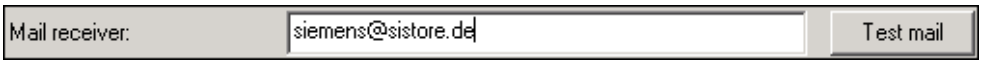


Fig. 128 Mail recipient text field on the E-mail and SMS tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **E-mail and SMS** tab.
2. Select the **Main receiver** sub-tab.
3. Enter a main recipient for e-mail in the **Mail receiver** text field in e-mail address format (mandatory).
4. Example: john.doe@security.com

NOTE:
- Multiple recipients can be entered in this text field. Separate the individual e-mail addresses with a semicolon. The field is limited to 256 characters.
- In case of a problem, only the main recipient will be notified.
- This person will receive all e-mail notifications at any time of day or night.

5. Click **Apply**.
➔ The setting will be saved.

E-mail notification test
You can test whether the main recipient receives an e-mail in case of a warning or problem.
1. Click **Test mail**.
➔ A test e-mail will be sent to the main recipient.
2. Check the e-mail inbox of the main recipient.

18.1.5 Configuring time control

In the group field **Time control**, you can determine the period in which the second through fifth recipient receives an e-mail. The main recipient receives all e-mail notifications at any time of day or night.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **E-mail and SMS** tab.
2. Select the **2nd receiver** sub-tab.
3. Mark the checkbox **Time control** in the **Time control** group field.
4. Click **Options...**.

➔ The SISTORE MX NVS **Time control** window opens.

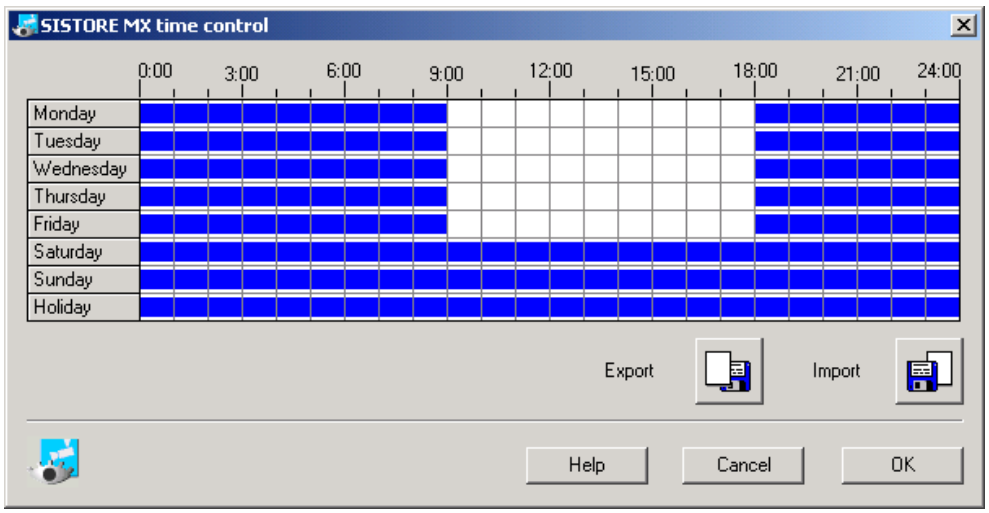


Fig. 129 SISTORE MX NVS Time control dialog

5. Set the desired time period. See also Section "7.1.4 SISTORE MX NVS time control window" for more information.
6. Click **OK**.
➔ The SISTORE MX NVS **Time control** window will close.
7. Repeat steps 2 and 6 as often as required if you want to configure time control for multiple recipients.
8. Click **Apply**.
➔ The setting will be saved.

18.2 Configuring SMS notification

18.2.1 Enabling SMS notification

With the checkbox **Send SMS** you can specify that an SMS be sent if a warning or problem occurs.

An SMS is sent in the case of the following problems:	
● Camera is missing / available again	● Hard drive full, recording stopped
● UPS reports power failure / power supply restored	● Failure of a hard drive
● Hard drive online again after failure	● Relevant data overwritten
● Recording could not be started	● SISTORE MX not properly closed
●	● Fatal recording error

NOTE:
In case of a problem, only the main recipient will be notified.

Prerequisites
- The SISTORE MX NVS software has been started.
See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Send SMS**.

3. Select the **E-mail and SMS** tab.
4. Mark the checkbox **Enable e-mail/SMS notification**.

5. Click **Apply**.
➔ Your settings will be saved.

18.2.2 Entering SMS recipient data

Fig. 130 SMS receiver text field on the E-mail and SMS tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **E-mail and SMS** tab.
2. Select the **Main receiver** sub-tab.
3. In the text field **SMS receiver**, enter the telephone number with the network information as shown in the example.

Examples:
- D1 network: <telephone number>@t-d1-sms.de
- D2 network: <telephone number>@d2-message.de
- E network <telephone number>@smsmail.eplus.de
- E2: <telephone number>@o2online.de

NOTE:
SMS messages are sent to the mobile telephone via the e-mail function of the provider, thus it must be enabled to receive e-mail SMS messages. The receipt of such SMS messages generally incurs fees for the mobile telephone user.

4. Repeat steps 2 and 3 as often as required if you want to set up multiple recipients.

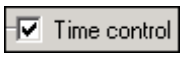
NOTE:
In case of a problem, only the main recipient will be notified.
He receives all SMS messages at any time of the day or night if the relevant mobile telephone is switched on.

5. Click **Apply**.
➔ The setting will be saved.

Sending a test SMS
You can test whether the main recipient receives an SMS in case of a warning or problem.
1. Click **Test SMS**.
➔ An SMS will be sent as a test.
2. Check whether the SMS arrives.

18.2.3 Configuring time control

In the group field **Time control**, you can determine the period in which the second through fifth recipient receives an SMS. The main recipient receives all SMS notifications at any time of day or night.



Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **E-mail and SMS** tab.
2. Select the **2nd receiver** sub-tab.
3. Mark the checkbox in the **Time control** group field.
4. Click **Options...**.
   ➔ The SISTORE MX NVS **Time control** window will open.
5. Configure the time table. See Section "Configuring time control", page 79.
6. Click **OK**.
   ➔ The SISTORE MX NVS **Time control** window will close.
7. Repeat steps 2 and 6 as often as required if you want to configure time control for multiple recipients.
8. Click **Apply**.
   The setting will be saved.

18.3 Configuring the alarm connection

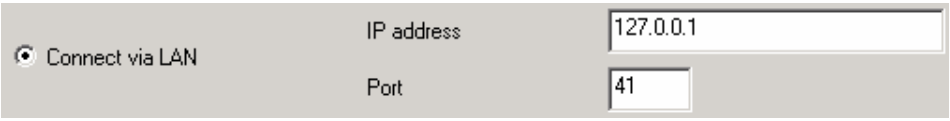
18.3.1 Configuring the network alarm connection

On the main connection sub-tab you can specify that a connection to a SISTORE RemoteView client is established in case of an event and the live image of the affected camera is shown on the SISTORE RemoteView client.

Prerequisites

- The SISTORE RemoteView software has been started.
  See Section "Starting SISTORE RemoteView", page 191.
- The option **Allow alarm connection** is enabled in the SISTORE RemoteView software.
  See Section "Configuring the network connection", page 193.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Alarm connection** tab.
2. Select the **Main connection** sub-tab.



3. Select the option **Connect via LAN**.
4. Enter the IP address in the **IP address** field.
5. Enter the port in the **Port** field.
6. Repeat steps 2 and 5 as often as required if you want to set up multiple connections.
7. Select the **System** tab.
8. Mark the checkbox **Alarm call**

.

NOTE:
In case of an event, the system attempts to call the main recipient via the main connection. If this does not succeed, a call to the second recipient is made via the first alternative connection, etc.

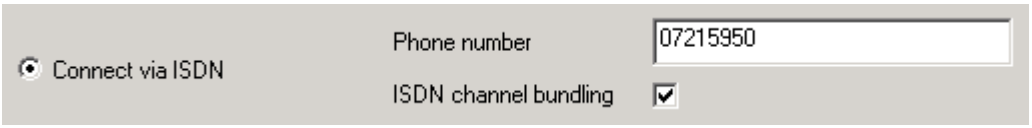
9. Click **Apply**.
➔ Your settings will be saved.

18.3.2 Configuring the ISDN alarm connection

You can configure alarm notification in case of **alarms** and **errors** over ISDN.
In case of alarm or error messages, a connection will be made to a SISTORE RemoteView client and the live image of the particular camera will be shown there.

Prerequisites:
- An ISDN modem is connected to the SISTORE MX NVS server. A driver has been installed.
- The SISTORE RemoteView application software has been started. See Section 25.2 Starting SISTORE RemoteView and logging in.
- The option **Allow alarm connection** is enabled in the SISTORE RemoteView application software. See Section 25.4.2 Configuring the network connection.

1. Select the **Alarm connection** tab.
2. Select the **Main connection** sub-tab.
3. Select the option **Connect via ISDN**.



4. Mark the checkbox **ISDN channel bundling** if necessary.
5. Repeat steps 2 and 5 as often as required if you want to set up multiple connections. You can set up max. 1 main connection and 4 alternative connections.
➔ You can now configure the alarm notification.

Notification in case of alarms
1. Select the **Recording** tab.
2. Select the **Alarm input** sub-tab.
3. Mark the checkbox **Alarm call**

.

In case of an event, the system attempts to call the main recipient via the main connection. If this does not succeed, a call to the second recipient is made via the first alternative connection, etc.

4. Click **Apply**.
➔ Your settings will be saved.

Notification in case of errors
1. Select the **System** tab.
2. Mark the checkbox **Alarm call**

in the **Warnings** section.

In case of an event, the system attempts to call the main recipient via the main connection. If this does not succeed, a call to the second recipient is made via the first alternative connection, etc.

3. Click **Apply**.
➔ Your settings will be saved.

18.3.3 Configuring time control

In the **Time control** group field, you can determine the period during which an alarm connection is to take place.

Prerequisites

- The SISTORE RemoteView software has been started.
  See Section "Starting SISTORE RemoteView", page 191.
- The option **Allow alarm connection** is enabled in the SISTORE RemoteView software.
  See Section "Configuring the network connection", page 193.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Alarm connection** tab.
2. Select the **1. alternative connection** sub-tab.
3. Mark the checkbox in the **Time control** group field.
4. Click **Options...**.
➔ The SISTORE MX NVS **Time control** window will open.
5. Configure the time table.
See Section "Configuring time control", page 79.
6. Click **OK**.
➔ The SISTORE MX NVS **Time control** window will close.
7. Repeat steps 2 and 6 as often as required if you want to configure time control for multiple alternative connections.
8. Click **Apply**.
➔ The setting will be saved.

18.4 Configuring the FTP server

You can configure a connection to the FTP server on the **FTP** tab. In case of an alarm, the alarm message will be stored as an MSG file and an alarm image as a JPEG in the root directory on the FTP server. This procedure is based on a special German standard (EBÜS from Accelance). The root directory is in the **Users** directory. Usually a dedicated root directory is created for each user of the FTP server.
The alarm image and text file will be named after the starting point of the alarm: YYYYMMDDHHMMSSxxx.jpg

YYYY	year
MM	month
DD	day
HH	hour
MM	minute
SS	second
xxx	milliseconds

In case of an alarm, a subdirectory will be created which is named after the camera for which the alarm occurred.

CAUTION Ensure that there is sufficient storage space on the target drive.

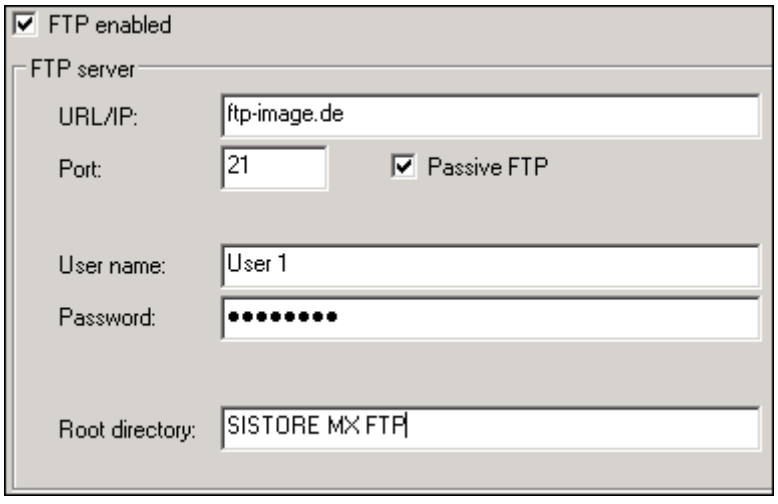


Fig. 131 FTP server group field on the FTP tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Alarm input** sub-tab on the **Recording** tab.
2. Mark the checkbox **FTP** FTP.
3. Click **Apply**.
   ➔ The setting will be saved.
4. Select the **FTP** tab.
5. Mark the checkbox **FTP enabled**.

6. Enter the IP address of the FTP server in the **URL/IP** text field.

Note
If this information is not available, contact your network administrator or Internet service provider.

7. Enter the port number of the FTP server in the **Port** text field. The port is usually 21.
8. If the SISTORE MX NVS software is operated behind a firewall, mark the checkbox **Passive FTP**.
9. Enter the user name for the FTP server in the **User name** text field.
10. Enter the password for the FTP server in the **Password** text field.
11. Enter the name of the directory in which all alarm images are to be saved in the text field **Root directory**.
If you have not entered a name in the text field **Root directory**, the alarm images will be saved directly in the Users directory.
12. Click **Apply**.
➔ The setting will be saved.

18.5 Testing alarm response

You can simulate an alarm in order to test the configured alarm response.

It is not necessary to stop the recording process.

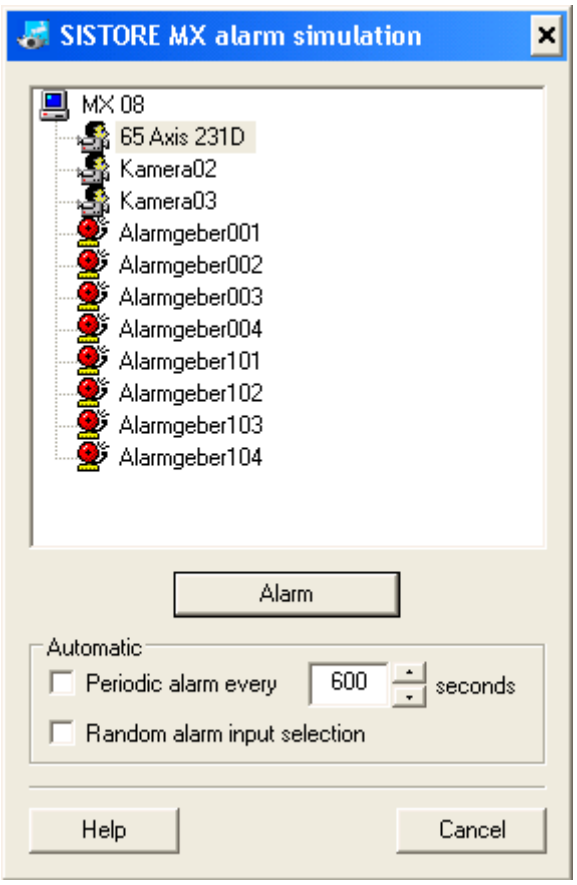
Allow alarm simulation
1. Select the **System** tab.
2. Mark the checkbox **Allow alarm simulation**.
3. Click **OK**.
➔ The setting will be saved.

Simulate alarm
Prerequisites:

- Alarm simulation is allowed.
- At least one alarm input must have been configured. See Section 11 Configuring alarm inputs.
  – OR –
  At least one camera that has motion detection activated must have been configured as an alarm input. See Section 16.4 Configuring recording modes.

1. Select the menu sequence **Action > Simulate alarm …**

➔ The following dialog box opens.



2. To simulate a specific alarm select the desired alarm input or camera.
3. To simulate all alarms periodically one after the other, mark the checkbox **Periodic alarm every...** and enter the time interval in seconds.
4. If the alarm inputs for the periodic alarm simulation are to be selected randomly, also mark the checkbox **Random alarm input selection**.
5. Click on **Alarm**.
➔ The alarms will be simulated.

19 Configuring bank mode

19.1 Enabling bank mode

NOTE:
Cash register mode and bank mode are mutually exclusive. Only one of the two tabs is available at any time.

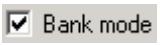


Fig. 132 Bank mode checkbox on the System tab

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.
2. Mark the checkbox **Bank mode**.
➔ The **SISTORE MX NVS** dialog opens.

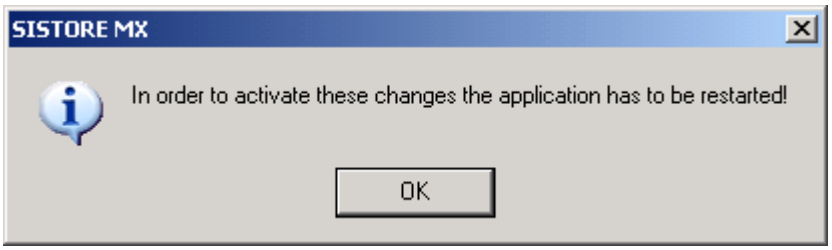


Fig. 133 SISTORE MX NVS dialog

3. Click **OK**.
➔ The SISTORE MX NVS software will close.
4. Start the SISTORE MX NVS software.
➔ The **Banking** tab will be shown.

19.2 Configuring the number of recordings

In the **Cash box parameters** group field you can specify how many test, suspicion and holdup recordings are saved continuously. For suspicion and holdup recordings, the SISTORE MX NVS software creates an internal write protection that cannot be removed by the user.
Suspicion and holdup recordings will be triggered if an alarm input with suspicion or holdup priority is assigned to a particular camera and reports an alarm to this camera. Triggering suspicion and holdup recordings is recorded in the log book so that it is possible to search selectively for these recordings at a later date.
Trial recordings are triggered manually by the user. Further information on this can be found in the SISTORE MX NVS User Manual.

Note
For suspicion and holdup recordings, the SISTORE MX NVS application software creates an internal write protection that cannot be removed by the user. As soon as the set number of suspicion and holdup recordings is reached, the system enables the oldest recording of the particular type to be deleted. Afterward this recording is treated like an ordinary room recording and can be automatically overwritten by the system if necessary.

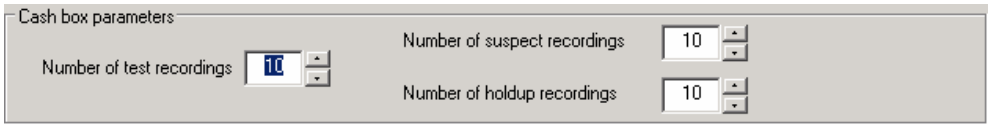


Fig. 134 Cash box parameters group field on the Banking tab

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- The SISTORE MX NVS application software is in banking mode.
  See Section "Enabling bank mode“, page 149.

1. Select the **Banking** tab.
2. Enter a value in the **Number of test recordings** field.
3. Enter a value in the **Number of suspect recordings** field.
4. Enter a value in the **Number of holdup recordings** field.
5. Click **Apply**.
➔ The settings have been saved.

19.3 Configuring forced logout

If one of two chip cards is removed from a card reader connected to SISTORE MX, the system will force a logout. In order to log in again, both chip cards must be inserted into the readers again.

Note
If no delay has been configured, the logout will be forced the moment a chip card is removed from a reader.
If a delay has been configured, the logout will be forced after the set period of time.

Setting a delay time for forced logout

Prerequisites:

- 2 chip card readers are connected to SISTORE MX and recognized by the operating system.
- The SISTORE MX NVS application software has been started. See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.
- The SISTORE MX NVS application software is in banking mode. See Section "Enabling bank mode", page 149.

1. Select the **Banking** tab.
2. Mark the checkbox **Forced logout** (see Fig. 135).
3. Set the time after which the logout is to be forced.
4. Click **Apply**.
➔ The settings will be saved.
➔ The logout will be forced after the set period of time.

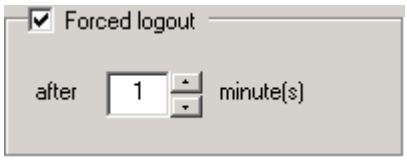


Fig. 135 Forced logout group field

20 Configuration of cash dispenser mode

20.1 Enabling cash dispenser mode

NOTE:
Cash register mode and bank mode are mutually exclusive. Only one of the two tabs is available at any time.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- Bank mode is enabled.
  See Section "Enabling bank mode", page 149.

1. Select the **System** tab.
2. Mark the checkbox **Cash dispenser**.
➔ Confirm the message that follows with **OK**.
3. Click **OK** on the **System** tab.
➔ The **SISTORE MX NVS** dialog opens.

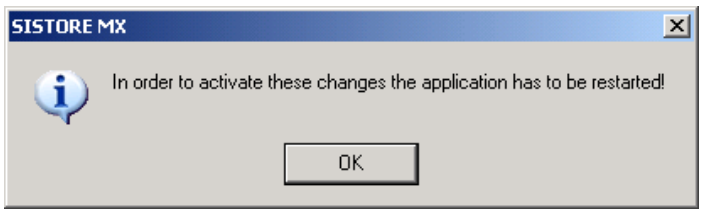


Fig. 136 SISTORE MX NVS dialog
➔ The SISTORE MX NVS software will close.

If you wait longer than 10 seconds, the SISTORE MX NVS software will close automatically.

4. Start the SISTORE MX NVS software.
➔ The **Banking** tab will show the cash dispenser mode.

20.2 Configuring cash dispenser monitoring

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Banking** tab.
2. Select the desired cash dispenser in the cash dispenser list.

Fig. 137 Cash dispenser list on the Banking tab

3. Select the desired manufacturer or protocol from the **Type** dropdown list.

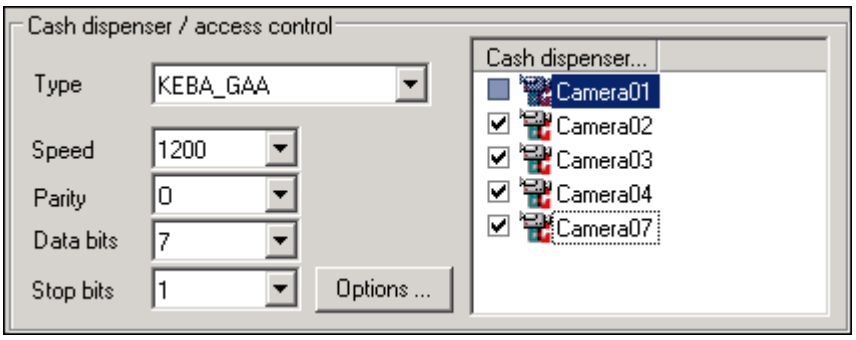


Fig. 138 Cash dispenser / access control group field on the Banking tab

The SISTORE MX NVS software supports up to 8 cash dispensers of various manufacturers and protocols:

Cash dispenser	**Type**
ASCOM	IBM_PBM type
DIEBOLD	IBM_PBM type
IBM	IBM_PBM type
IBM_PBM	IBM_PBM type
KEBA_GAA	IBM_PBM type
KEBA_ZKS	SNI_DREBA type
NCR	NCR type
SNI	NCR type
SNI_DREBA	SNI_DREBA type
SNI_PBM	IBM_PBM type

➔ The selected cash dispenser will be shown with the name of the manufacturer or the protocol in the cash dispenser list.

➔ The interface parameters **speed**, **parity**, **data bits** and **stop bits** are set automatically. Further information on this will be found in the cash dispenser documentation.

Note
The combination **7 data bits** and **parity = none** is not supported.

4. Click **Options...**.
➔ The SISTORE MX NVS **Cash dispenser options – IBM_PBM** window opens.

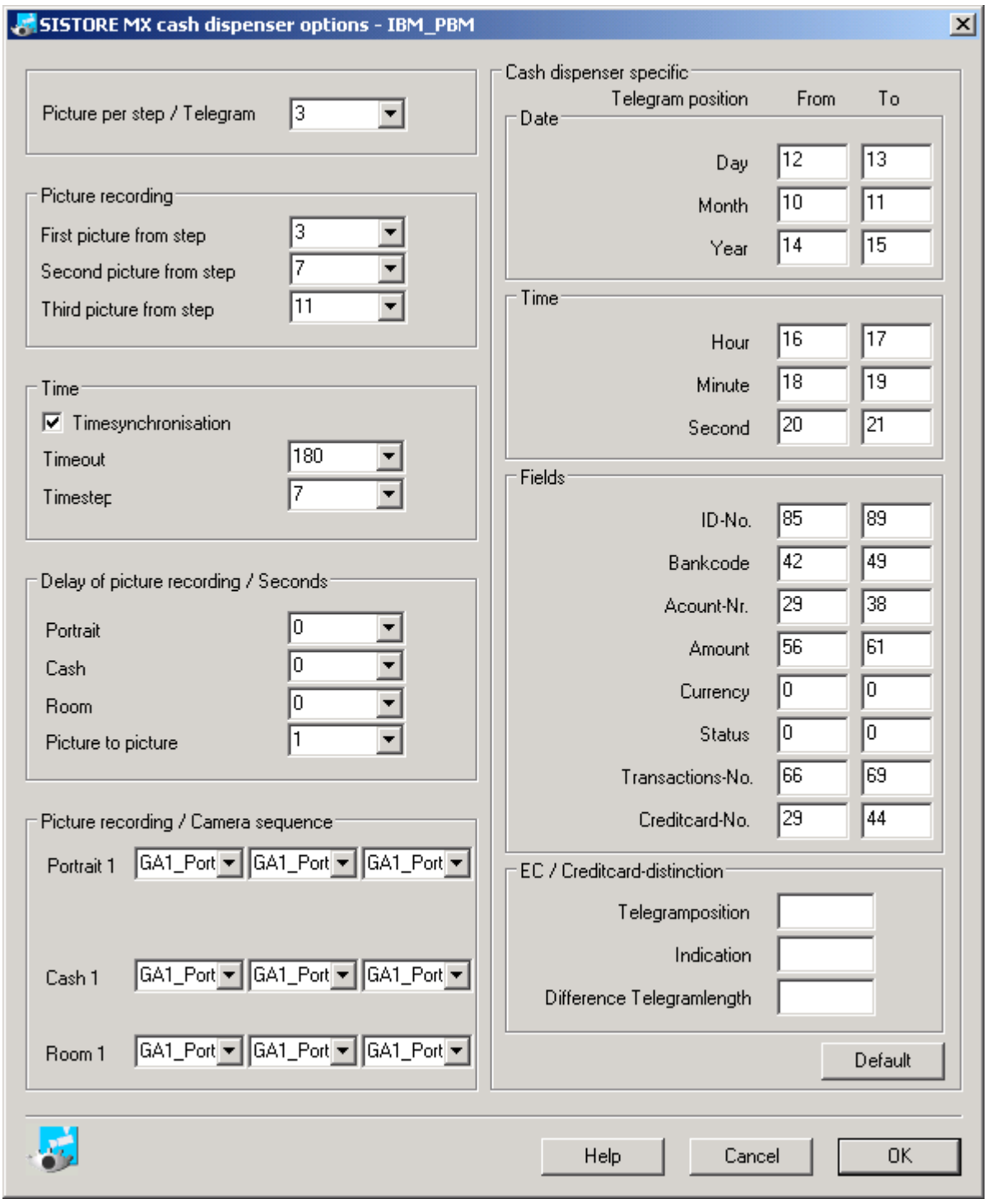


Fig. 139 Settings of the IBM_PBM cash dispenser type

The following settings can be made in this window:

Note
The IBM, IBM_PBM, SNI_PBM, DIEBOLD, KEBA_GAA and ASCOM cash dispenser types work according to the PBM (Personal Banking Machine) protocol from IBM. The settings options of these cash dispenser types can differ a little from the settings options of the PBM type.

Picture per step/Telegram
Indicate here how many images per step/telegram are to be recorded.

Picture recording
The image recording for the images 1, 2 and 3 (or for the image group if multiple images are recorded from one camera or various cameras for a telegram) will be initiated based on the step ID, i.e. the step ID determines whether and when an image or an image group is recorded. The setting for which steps are used is made here with three configurable steps:

- **First picture from step:** for the first image recording
- **Second picture from step:** for the second image recording
- **Third picture from step:** for the third image recording

If no step is specified for the third image or for the image group, image 3 will be recorded at a delay time (VZ_BILD_BILD) from image 2 which can be set in the configuration.

Note
In order for the cash dispenser link to ensure secure operation, at least two fields (step 3 and 10 or 11) in the cash dispenser must be enabled!
The enabling takes place directly on the cash dispenser via the “CI”. This involves the configuration file “Custom.dat”.

Time
The following settings can be made in the Time group field:

- **Time synchronization:**
  If multiple cash dispensers are connected to a SISTORE MX NVS system this specification can define which ones synchronize the SISTORE MX NVS system. We recommend enabling time synchronization only for one interface (one cash dispenser); if the cash dispensers have different times, this is urgently necessary.
- **Timeout:**
  After a set timeout period an active transaction is automatically ended. This is necessary in order to close transactions properly for which the last specified step is missing, for example with an account balance query. The specification of the timeout is in seconds.
  TIMEOUT=300
  If a transaction is ended by a timeout, an archive entry with status=2 is made.
- **Timestep:**
  The TIMESTEP parameter can determine which telegram is used for the synchronization. This is to achieve optimal agreement of the time between the SISTORE MX NVS archive and the cash dispenser journal.

Delay of picture recording
The following fields can be used to define the delay times in seconds between the arrival of the telegram and the actual recording of the image:

- Portrait
- Cash
- Room
- Picture to picture

The **picture to picture** dropdown is enabled if a telegram is to result in multiple images being recorded by a camera or an image each from various cameras.

Picture recording / Camera sequence
Here you set the sequence of the cameras for image recording at the various telegram times.

Cash dispenser specific

Note
Here there are default values which can be changed for the individual cash dispenser types.

- Date: day, month, year
- Time: hours, minutes, seconds
- Account number
- Bankcode
- Amount
- Currency
- Status
- Transaction number
- Credit card number
- ID no. (workstation ID)

To determine the positions from the telegram, the log mechanism in the file **GAA.ini** in the [DEBUGINFO] section is to be activated.
Then the telegrams can be represented via the log file DTC_GAA.log.

EC / Credit card distinction
The telegrams of EC cards and credit cards differ, depending on cash dispensers or computing centres, by particular **characteristic** characters (such as blank spaces), which are at a particular position in the telegram and also differ sometimes in the length of the telegram. These characteristic characters are identifiable by their ASCII code.

- Enter the position of the characteristic character, such as 39, in the field "Telegram position".

Example	
39	Position for differentiating between EC and credit card

- Enter the ASCII code of the characteristic character in the field "Indication", such as the number "32" for a blank space. Example:

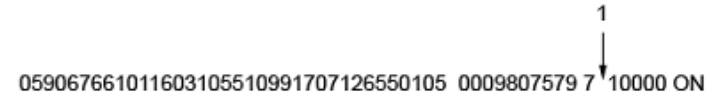
Example	
37	Character for differentiation as ASCII code //e.g. Chr(32) = " "

In exceptional cases, the telegram generated by a credit card is longer.
- Enter the difference in telegram length of the two card types in the corresponding field, for example 7.

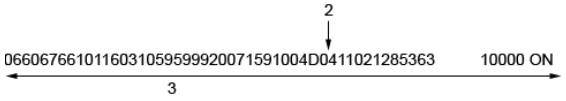
Example	
7	// Difference in telegram length between EC and credit card, for example 7

With EC cards there is a blank space at position 39. Credit cards have no blank space at this position. A blank space has the ASCII code "32".

Telegram for an EC card:



Telegram for a credit card:



1	Blank space at position 39; the ASCII code for a blank space is 32
2	No blank spaces
3	The difference in telegram length between an EC card and a credit card is 7 characters

1. Click **OK**.
➔ The SISTORE MX NVS **Cash dispenser options** window will close.

You have two options to assign cash dispenser cameras:

2. Mark the checkbox in front of the desired camera in the cash dispenser camera list.
or
3. Right-click on the cash dispenser camera list.
➔ The SISTORE MX NVS context menu will open.
4. Mark **Select all**.
➔ All cameras will be selected.

Note
You can assign a maximum of 3 cash dispenser cameras to each cash dispenser.

5. In the **Stored for** field, select the number of days that are to be saved and not automatically overwritten.
6. In the **Number of transactions** field, select the number of transactions that are to be saved and not automatically overwritten.

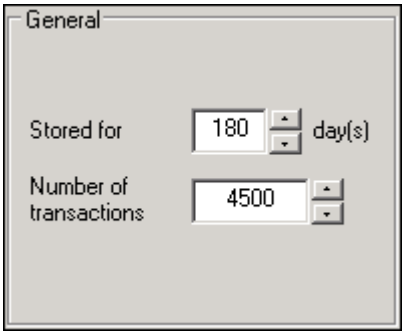


Fig. 140 Cash dispenser / access control General group field on the Banking tab

Note
Cash dispenser recordings will be deleted if the storage period or number of transactions is exceeded or if the recording capacity of the hard drive (D:\) is exhausted.

20.2.1 Configuring the NCR type

Prerequisites

- The SISTORE MX NVS application software has been started. See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.

1. Select the **Banking** tab.
2. Select the desired cash dispenser in the cash dispenser list.

Fig. 141 Cash dispenser list on the Banking tab

3. Select the desired manufacturer or protocol from the **Type** dropdown list.

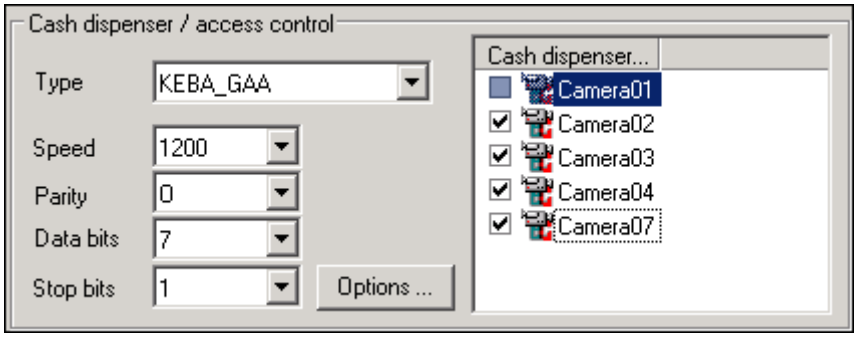


Fig. 142 Cash dispenser / access control group field on the Banking tab

The SISTORE MX NVS software supports up to 8 cash dispensers of various manufacturers and protocols:

Cash dispenser	**Type**
ASCOM	IBM_PBM type
DIEBOLD	IBM_PBM type
IBM	IBM_PBM type
IBM_PBM	IBM_PBM type
KEBA_GAA	IBM_PBM type
KEBA_ZKS	SNI_DREBA type
NCR	NCR type
SNI	NCR type
SNI_DREBA	SNI_DREBA type
SNI_PBM	IBM_PBM type

➔ The selected cash dispenser will be shown with the name of the manufacturer or the protocol in the cash dispenser list.

➔ The interface parameters **speed**, **parity**, **data bits** and **stop bits** are set automatically. Further information on this will be found in the cash dispenser documentation.

Note
The combination 7 data bits and parity = none is not supported.

4. Click **Options...**.
➔ The SISTORE MX NVS **Cash dispenser options – NCR** window opens.

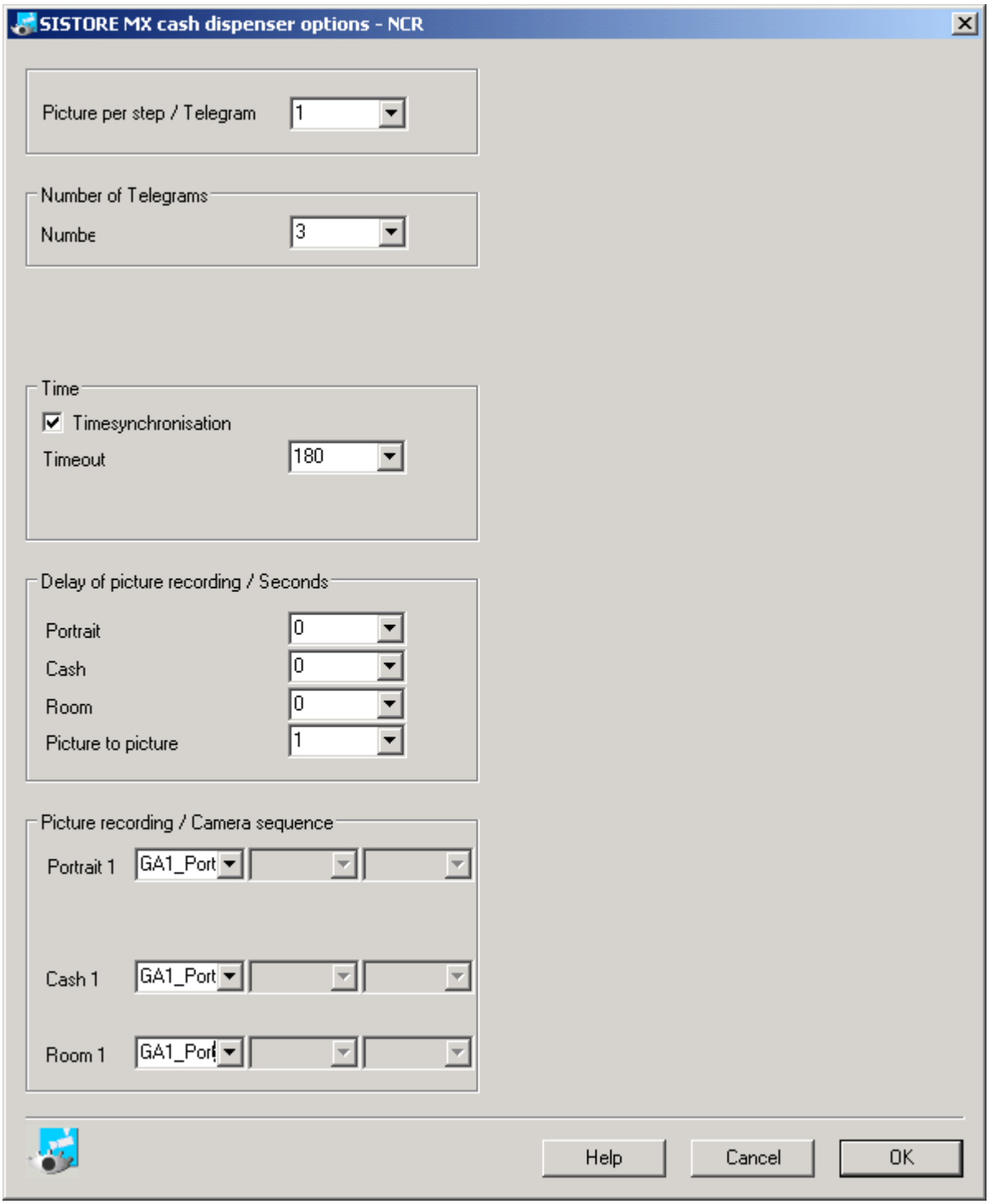


Fig. 143 Settings of the NCR cash dispenser type

The following settings can be made in this window:

Note
In contrast to the cash dispenser type SNI, for the NCR cash dispenser type only the field "Number" is shown in the group field **Number of telegrams**.

Picture per step/Telegram
Indicate here how many images per step/telegram are to be recorded.

Number of telegrams
Enter the number of telegrams sent by the cash dispenser here.

Time
The following settings can be made in the Time group field:

- **Time synchronization:**
  If multiple cash dispensers are connected to a SISTORE MX NVS system this specification can define which ones synchronize the SISTORE MX NVS system. It is recommended to enable time synchronization only for one interface; if the cash dispensers have different times, this is urgently necessary.
- **Timeout:**
  After a set timeout period an active transaction is automatically ended. This is necessary in order to close transactions properly for which the last specified step is missing, for example with an account balance query. The specification of the timeout is in seconds.
  TIMEOUT=300
  If a transaction is ended by a timeout, an archive entry with status=2 is made.

Delay of picture recording / seconds
The following fields can be used to define the delay times in seconds between the arrival of the telegram and the actual recording of the image:

- Portrait
- Cash
- Room
- Picture to picture

The **picture to picture** dropdown is enabled if a telegram is to result in multiple images being recorded by a camera or an image each from various cameras.

Picture recording / Camera sequence
Here you set the sequence of the cameras for image recording at the various telegram times.

1. Click **OK**.
2. The SISTORE MX NVS **Cash dispenser options** window will close.
You have two options to assign cash dispenser cameras:

- Mark the checkbox in front of the desired camera in the cash dispenser camera list.
  ➔ The SISTORE MX NVS context menu will open.
  or
- Right-click on the cash dispenser camera list.
  ➔ The SISTORE MX NVS context menu will open.

3. Mark **Select all**.
  ➔ All cameras will be selected.

Note
You can assign a maximum of 3 cash dispenser cameras to each cash dispenser.

4. In the **Stored for** field, select the number of days that are to be saved and not automatically overwritten.
5. In the **Number of transactions** field, select the number of transactions that are to be saved and not automatically overwritten.

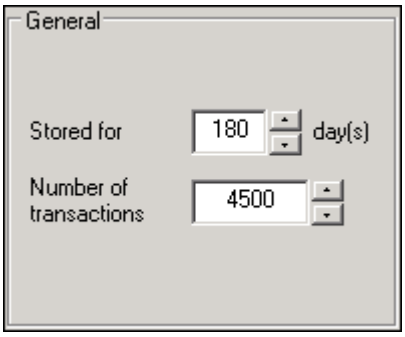


Fig. 144 Cash dispenser / access control General group field on the Banking tab

Note
Cash dispenser recordings will be deleted if the storage period or number of transactions is exceeded or if the recording capacity of the hard drive (D:\) is exhausted.

20.2.2 Configuring the SNI_DREBA type

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Banking** tab.
2. Select the desired cash dispenser in the cash dispenser list.

Fig. 145 Cash dispenser list on the Banking tab

3. Select the desired manufacturer or protocol from the **Type** dropdown list.

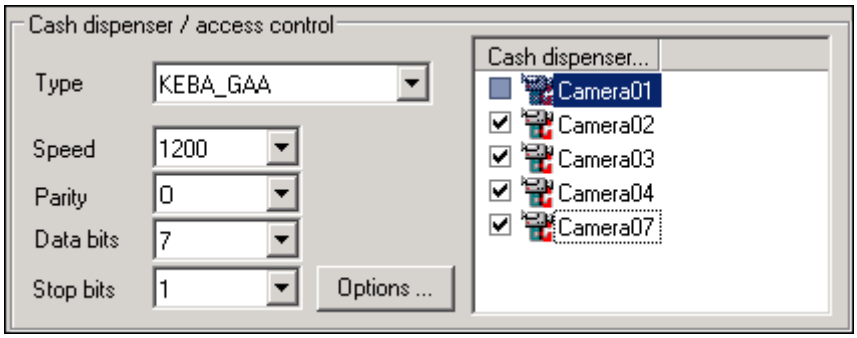


Fig. 146 Cash dispenser / access control group field on the Banking tab

The SISTORE MX NVS software supports up to 8 cash dispensers of various manufacturers and protocols:

Cash dispenser	**Type**
ASCOM	IBM_PBM type
DIEBOLD	IBM_PBM type
IBM	IBM_PBM type
IBM_PBM	IBM_PBM type
KEBA_GAA	IBM_PBM type
KEBA_ZKS	SNI_DREBA type
NCR	NCR type
SNI	NCR type
SNI_DREBA	SNI_DREBA type
SNI_PBM	IBM_PBM type

➔ The selected cash dispenser will be shown with the name of the manufacturer or the protocol in the cash dispenser list.
➔ The interface parameters **speed**, **parity**, **data bits** and **stop bits** are set automatically. Further information on this will be found in the cash dispenser documentation.

Note
The combination 7 data bits and parity = none is not supported.

4. Click **Options...**.

➔ The SISTORE MX NVS **Cash dispenser options – SNI_DREBA** window opens.

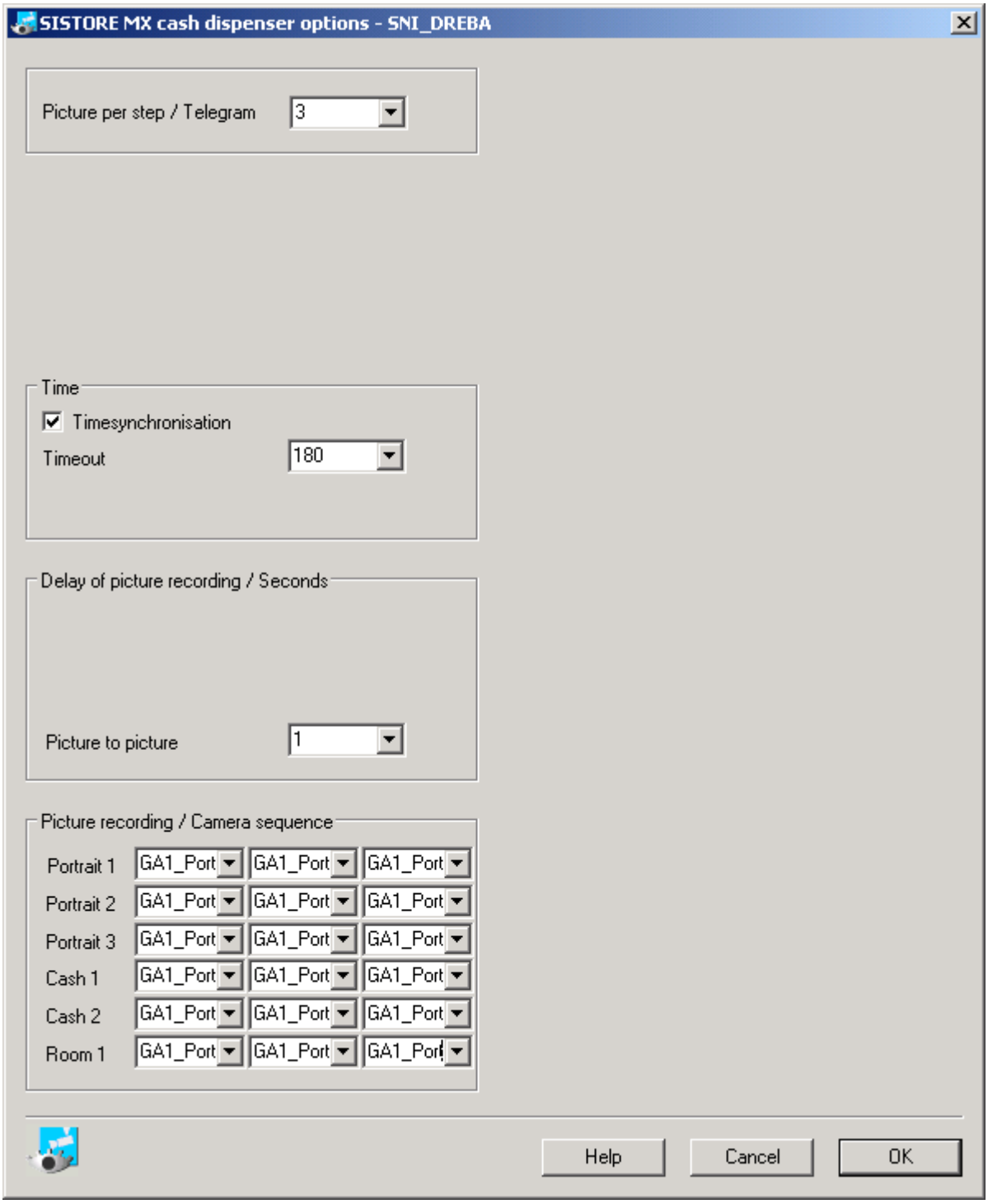


Fig. 147 Settings of the SNI_DREBA cash dispenser type

➔ The following settings can be made in this window:

Note
In contrast to the cash dispenser type SNI_DREBA, with the cash dispenser type KEBA_ZKS no settings can be made for **Picture recording / Camera sequence**.

Picture per step/Telegram
Indicate here how many images per step/telegram are to be recorded.

Time

The following settings can be made in the Time group field:

- **Time synchronization:**
  If multiple cash dispensers are connected to a SISTORE MX NVS system this specification can define which ones synchronize the SISTORE MX NVS system. It is recommended to enable time synchronization only for one interface; if the cash dispensers have different times, this is urgently necessary.
- **Timeout:**
  After a set timeout period an active transaction is automatically ended. This is necessary in order to close transactions properly for which the last specified step is missing, for example with an account balance query. The specification of the timeout is in seconds.
  TIMEOUT=300
  If a transaction is ended by a timeout, an archive entry with status=2 is made.

Delay of picture recording / seconds

The **picture to picture** field can be used to define the delay times in seconds between the arrival of the telegram and the actual recording of the image:
The **picture to picture** dropdown is enabled if a telegram is to result in multiple images being recorded by a camera or an image each from various cameras.

Picture recording / Camera sequence

Here you set the sequence of the cameras for image recording at the various telegram times.

1. Click **OK**.
   ➔ The setting will be saved.

You have two options to assign cash dispenser cameras:

- Mark the checkbox in front of the desired camera in the cash dispenser camera list.
  or
- Right-click on the cash dispenser camera list.
  ➔ The SISTORE MX NVS context menu will open.

2. Mark **Select all**.
   ➔ All cameras will be selected.

Note
You can assign a maximum of 3 cash dispenser cameras to each cash dispenser.

3. In the **Stored for** field, select the number of days that are to be saved and not automatically overwritten.

4. In the **Number of transactions** field, select the number of transactions that are to be saved and not automatically overwritten.

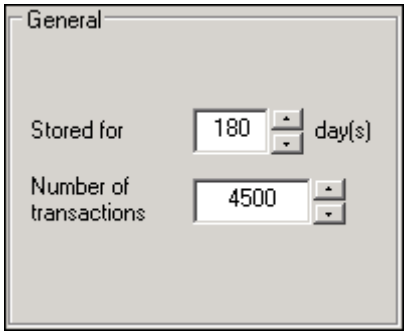


Fig. 148 Cash dispenser / access control General group field on the Banking tab

Note
Cash dispenser recordings will be deleted if the storage period or number of transactions is exceeded or if the recording capacity of the hard drive (D:\) is exhausted.

20.3 Configuring access control

20.3.1 Adding and removing card readers

Prerequisites:

- At least one card reader is connected via an interface to a COM port of the PC.
- The SISTORE MX NVS application software has been started. See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.
- The options **Bank mode** and **Cash dispenser** are activated.
  See Section "Enabling bank mode" and
  Section "Enabling cash dispenser mode", pp. 149 and 152.

Add a new card reader

1. Select the **Banking** tab.

2. Click the button in the **Access** group field.
➔ A new card reader is added to the list (see Fig. 149).

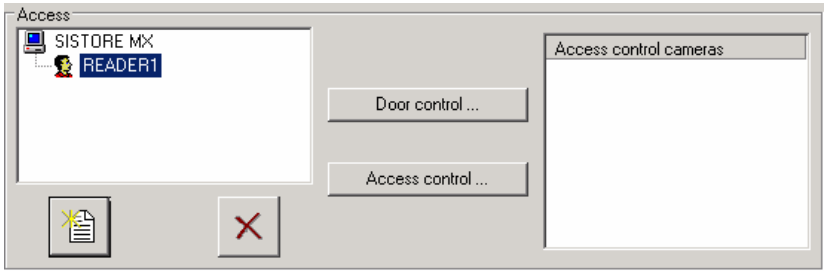


Fig. 149 Access group field in the Banking tab

Remove a card reader from the list

1. Select the **Banking** tab.

2. Select the card reader you wish to remove from the list.

3. Click the button in the **Access** group field.
➔ A confirmation dialog will be opened.

4. Click **Yes** in the confirmation dialog.
➔ The card reader is removed from the list.

20.3.2 Configuring the door control function

Note
The door control function has to be configured separately for each reader terminal.

Prerequisites

- The SISTORE MX NVS application software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.
- The options **Bank mode** and **Cash dispenser** are activated.
  See Section "Enabling bank mode“ and
  Section "Enabling cash dispenser mode“, pp. 149 and 152.
- At least one card reader is in the list.
  See Section "Adding and removing card readers“, page 165.

1. Select the **Banking** tab.
2. Select the desired card reader from the list.
3. Click the **Door control…** button.
➔ The **SISTORE MX Door control** dialog opens (see Fig. 150).

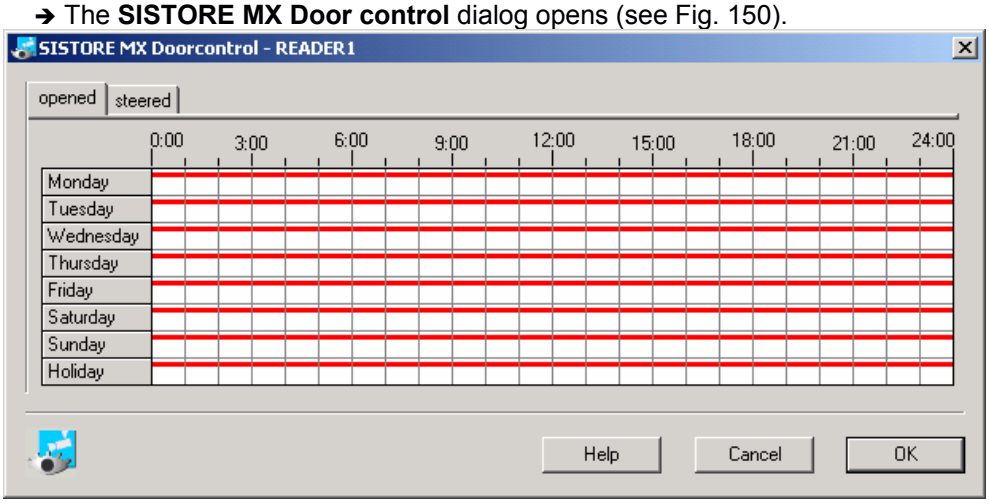


Fig. 150 SISTORE MX Door control dialog (unconfigured state)

Note
The SISTORE MX door control distinguishes between 3 states:

- **opened** (door opens even if no card is presented)
- **steered** (door opens only if a valid card is presented)
- **closed** (no access possible)

4. Select the **opened** tab.
5. Select the desired times by pressing the left mouse button.
➔ The selected time period is displayed in the timeline in the form of a green bar (see Fig. 151).
6. Select the **steered** tab.
7. Select the desired times by pressing the left mouse button.
➔ The selected time period is displayed in the timeline in the form of a blue bar (see Fig. 151).

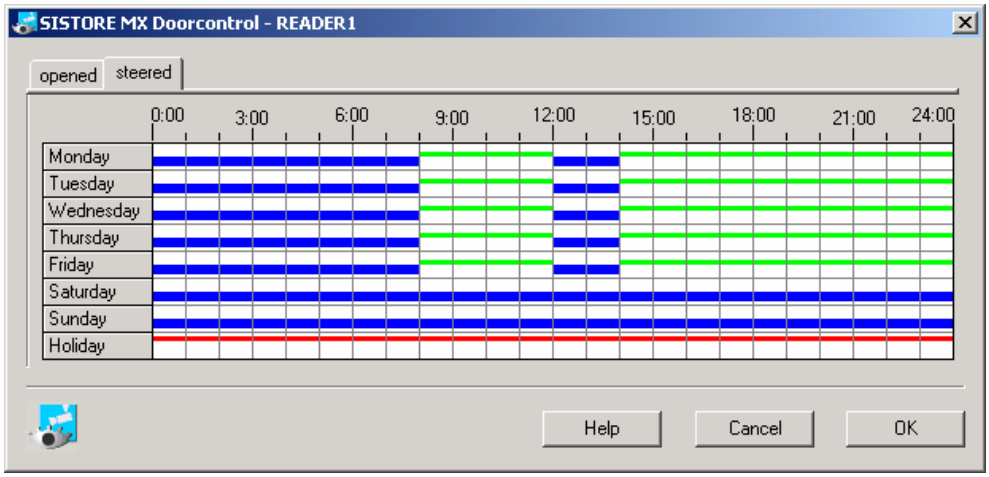


Fig. 151 SISTORE MX Door control dialog (configured)

8. Click **OK**.
9. Click **Apply**.
➔ The settings will be saved.

20.3.3 Configuring a black list

By means of a black list, individual cards or groups of cards can be denied access.

Note
The black list has to be configured separately for each reader terminal.

Prerequisites:
- The SISTORE MX NVS application software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS application software is in configuration mode. See Section "Opening configuration mode", page 18.
- The options **Bank mode** and **Cash dispenser** are activated.
  See Section "Enabling bank mode“ and
  Section "Enabling cash dispenser mode“.
- At least one card reader is in the list.
  See Section "Adding and removing card readers“.

Add a new entry to the black list
1. Select the **Banking** tab.
2. Select the desired card reader from the list.
3. Click the **Access control** button.
➔ The **Access control** dialog opens (see Fig. 152).

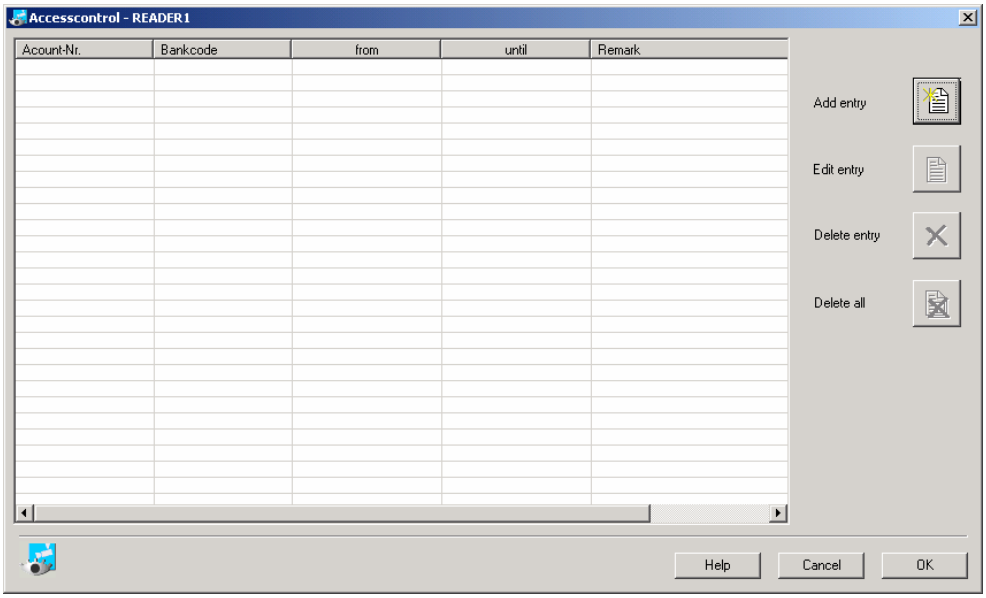


Fig. 152 Access control dialog

4. Click the **Add entry** button .

➔ The **SISTORE MX Access entry** dialog opens (see Fig. 153).

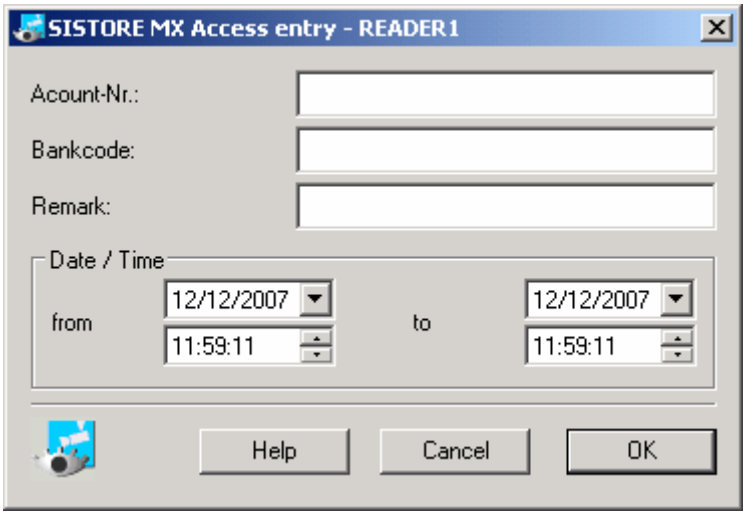


Fig. 153 SISTORE MX Access entry dialog

5. In order to inhibit a single card, enter the account number in the **Account-Nr** text field.

6. In order to inhibit all cards with a particular bank code, enter the appropriate bank code in the **Bankcode** text field.

7. Enter a comment on the current entry in the **Remark** text field.

Entries made in the **Date / Time** group field have no effect. A time limitation is currently not possible.

8. Select the period of time during which the card(s) is (are) to be inhibited in the **Date / Time** group field.

9. Click **OK**.

➔ The **SISTORE MX Access entry** dialog is closed.

➔ The entry has been added to the black list.

10. Click **OK** in the **Access control** in the dialog.

11. Click **Apply** in the **SISTORE MX Configuration** dialog.

➔ The settings will be saved.

Edit black list entries

1. Select the **Banking** tab.
2. Select the desired card reader from the list.
3. Click the **Access control** button.
➔ The **Access control** dialog opens.
4. Select the black list entry you with to edit.
5. Click the **Edit entry** button.
➔ The **SISTORE MX Access entry** dialog opens.
6. Edit the entries as desired.
7. Click **OK**.
➔ The **SISTORE MX Access entry** dialog is closed.
➔ The black list entry has been edited.
8. Click **OK** in the **Access control** dialog.
➔ The **Access control** dialog is closed.
9. Click **Apply** in the **SISTORE MX Configuration** dialog.
➔ The settings will be saved.

Delete a black list entry

1. Select the **Banking** tab.
2. Select the desired card reader from the list.
3. Click the **Access control** button.
➔ The **Access control** dialog opens.
4. Select the black list entry you wish to delete.
5. Click the **Delete entry** button.
➔ A confirmation dialog will be opened.
6. Click **Yes** in the confirmation dialog.
➔ The black list entry has been edited.
7. Click **OK** in the **Access control** dialog.
➔ The **Access control** dialog is closed.
8. Click **Apply** in the **SISTORE MX Configuration** dialog.
➔ The settings will be saved.

Delete all black list entries

1. Select the **Banking** tab.
2. Select the desired card reader from the list.
3. Click the **Access control** button.
➔ The **Access control** dialog opens.
4. Click the **Delete all entries** button .
➔ A confirmation dialog will be opened.
5. Click **Yes** in the confirmation dialog.
➔ All black list entries have been deleted.
6. Click **OK** in the **Access control** dialog.
➔ The **Access control** dialog is closed.
7. Click **Apply** in the **SISTORE MX Configuration** dialog.
➔ The settings will be saved.

21 Configuration of cash box mode

21.1 Adding a cash box

You can add up to 2 Sam4s cash boxes or 8 WINCOR cash boxes.

- Sam4s cash boxes are connected via the COM interface. WINCOR cash boxes are connected via the Multi-Channel Box.
- Cash box mode and bank mode are not possible at the same time.

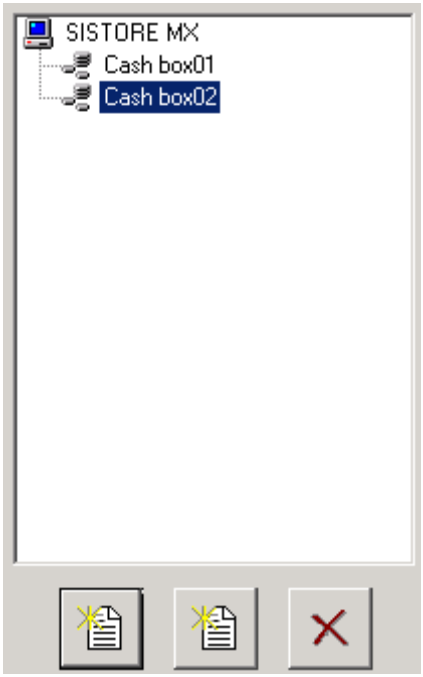


Fig. 154 Cash box list on the Cash box tab

1. Select the **Cash box** tab.

2. To add a Sam4s cash box, click the left icon **Add cash box**.

3. To add a WINCOR cash box, click the right icon **Add Cap cash box**.
➔ A cash box will be added to the cash box list.

4. Enter a name for the cash box in the **Name** text field.

5. Click **Apply**.
➔ Your settings will be saved.

21.2 Deleting a cash box

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Cash box** tab.

2. Select the cash box you want to delete from the cash box list.

3. Click the **Delete** button .

4. Confirm the message that follows with **OK**.

5. Click **Apply**.

➔ The setting will be saved.

21.3 Configuring cash box monitoring

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Cash box** tab.

2. Select the desired cash box in the cash box list.

➔ In the **Parameters** group field, the type, interface and interface parameters **data rate**, **data bits, parity** and **stop bits** are set automatically. Further information on this will be found in the cash box documentation.

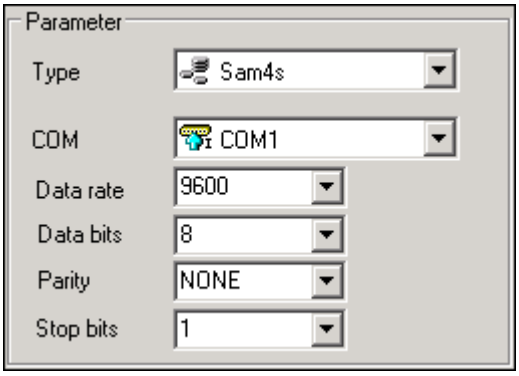


Fig. 155 Parameters group field on the Cash box tab

3. Select the desired camera from the Camera dropdown list.

NOTE:

- You can assign only one camera to each cash box and multiple cash boxes to each camera.
- We recommend setting the frame rate of cash box cameras in the **Software trigger** recording mode to 2.0/s (pre-trigger/long-time recording) and 4.0/s (post-trigger period). See Section 16.4 Configuring recording modes.

4. Click **Apply**.

➔ The setting will be saved.

21.4 Configuring filters

21.4.1 Creating a new filter

In the **Filter** group field you can specify that in the data stream (telegrams) sent by the cash box either uninteresting data are deleted or that an alarm is triggered when a filter word is received. All telegrams received are saved in the database.

- Filters must be set up individually for each cash box.
- Filters for WINCOR cash boxes are already set up. You can however change these filters and define new ones.

Fig. 156 Fields for defining the filter properties for Sam4s cash boxes

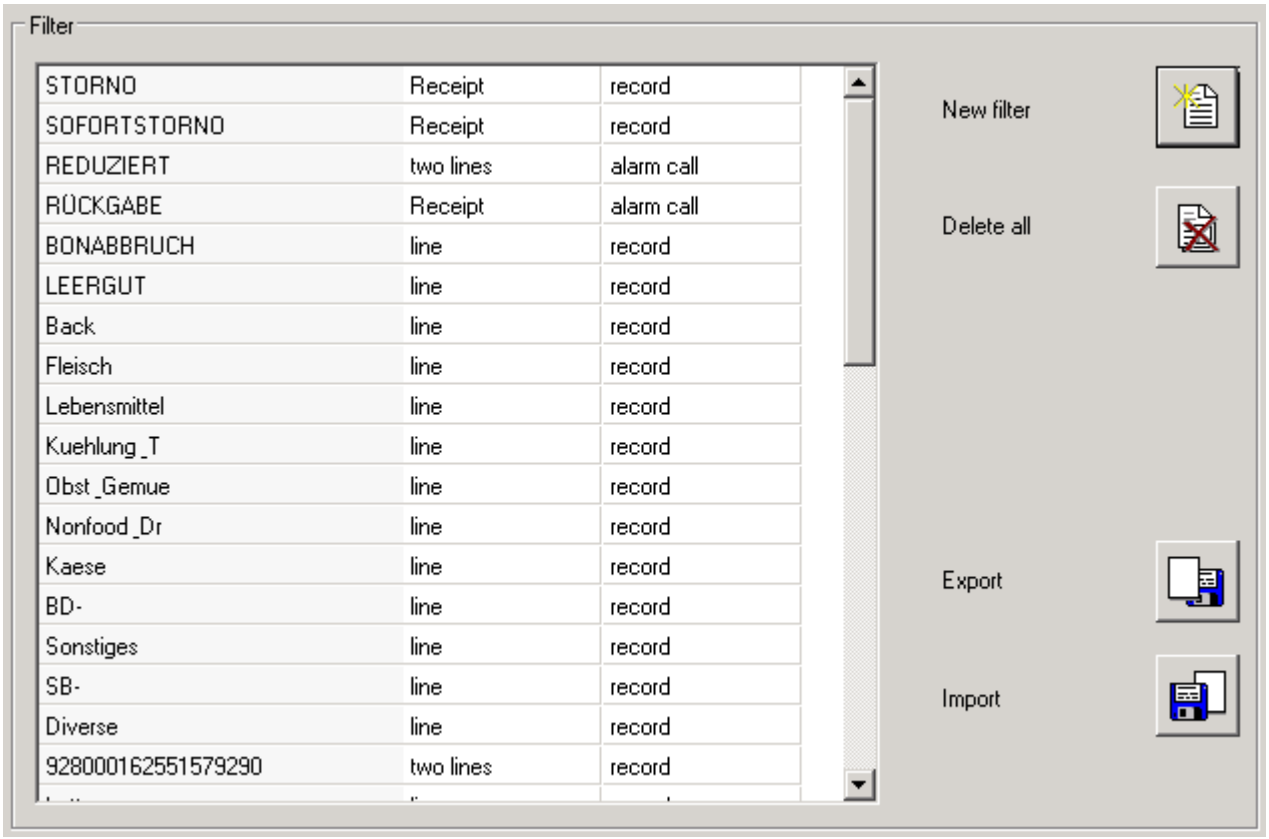
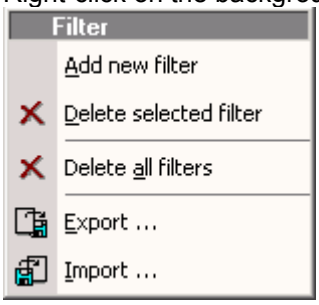


Fig. 157 Fields for defining the filter properties for WINCOR cash boxes

1. Select the **Cash box** tab.
2. Click the **New filter** button.
   – OR –
   Right-click on the background and select **Add new filter** from the context menu.



➔ The fields for defining filters will be opened.

3. Click on the arrow next to one of the list boxes.
4. Select the desired filter option from the dropdown list.
   Filter options for Sam4s cash boxes:

Inactive	No filter is used.
Word filter	If the filter word occurs as a substring of the received line, the word will be removed from the telegram.
Line filter	If the filter word occurs as a substring of the received line, the entire line will be removed from the telegram.
Alarm trigger	If the filter word occurs as a substring of the received line, an alarm will be triggered.
Receipt start	Defines the string a receipt begins with (e.g. "Welcome“)
Receipt end	Defines the string that ends a receipt (e.g. "Goodbye“)

Filter options for WINCOR cash boxes:

Line	If the filter word occurs as a substring of the received line, the line containing the filter word will be saved to the database.
Two lines	If the filter word occurs as a substring of the received line, the line containing the filter word and the subsequent line will be saved to the database.
Receipt	If the filter word occurs as a substring of the received line, the entire receipt will be saved to the database.
Inactive	No action is performed.
Record	If the filter word occurs as a substring of the received line, recording will be started.
Alarm call	If the filter word occurs as a substring of the received line, recording will be started and the alarm picture be displayed.

5. Enter the word to search for in the text field.
6. Click **Apply**.
   ➔ Your settings will be saved.

21.4.2 Importing filters

You can import saved filters with the **Import** button.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Cash box** tab.
2. Click the **Import** button .
   ➔ The **Open** dialog will open.
3. Select the filters you want to import.
4. Click **Open**.
   ➔ The filters will be imported. The **Open** dialog will close.

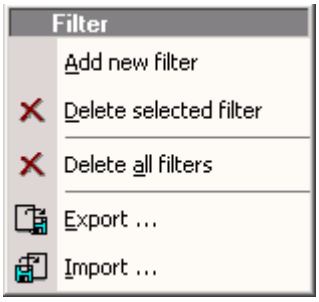
21.4.3 Deleting filters

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

Deleting a single filter

1. Select the **Cash box** tab.
2. Click in the text field of the filter you want to delete.
You have two options to delete a single filter:
3. Right-click on the background.
➔ The **Filter** context menu opens.



4. Select **Delete selected filter**.
5. Answer **Yes** in the confirmation dialog.
➔ The entry will be deleted.
or
6. Click the **Delete** button after the filter you want to delete.
7. Answer **Yes** in the confirmation dialog.
➔ The entry will be deleted.

Deleting all filters

1. Select the **Cash box** tab.
2. You have two options to delete all entries:
3. Right-click on the background.
➔ The **Filter** context menu will open.
4. Select **Delete all filters**.
5. Answer **Yes** in the confirmation dialog.
➔ The filters will be deleted.
or
6. Click the **Delete all** button .
7. Answer **Yes** in the confirmation dialog.
➔ All the filters will be deleted.

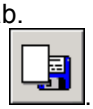
21.4.4 Exporting filters

The **Export** button can be used to back up filters and transfer them to other systems.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- At least one filter has been configured.

1. Select the **Cash box** tab.

2. Click the **Export** button  .
➔ The **Save As...** dialog opens.

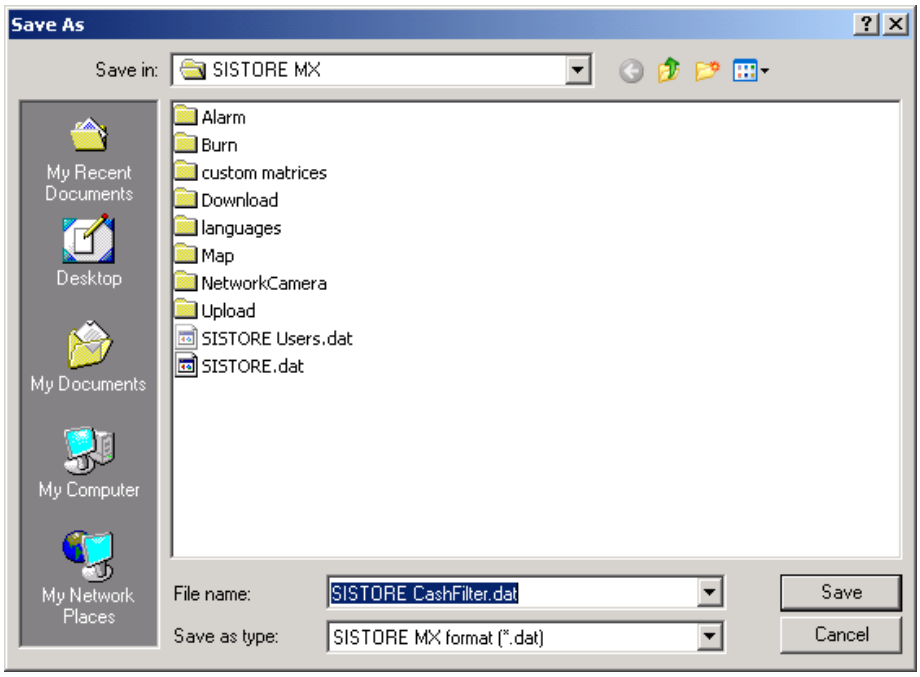


Fig. 158 "Save As..." dialog

3. Select the directory in which to save the filter configuration.
4. Enter a name in the **File name** field.
5. Click **Save**.
The filter configuration will be saved.

21.5 Displaying cash box data

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Cash box** tab.
2. Select the desired cash box in the cash box list (see Fig. 154, page 170).
3. Click **Show data...**.
➔ The SISTORE MX NVS **Cash box data** window opens.

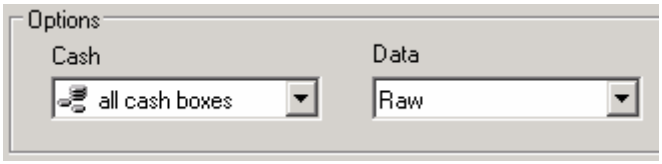


Fig. 159 Options group field in the SISTORE MX NVS Cash box data window

4. In the **Cash** dropdown list, select all cash boxes or select one cash box.
5. Select the desired option from the **Data** dropdown list.

Raw	All data will be shown.
Codepage	The data will be shown according to the codepage loaded.
Filtered	The filtered data will be shown.

➔ The data will be shown.

NOTE:
Changes to the filter settings will be seen with the next data received.

22 Configuration of holidays

22.1 Adding a holiday

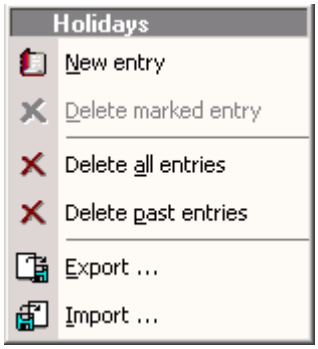
22.1.1 Creating a new holiday

For time control, in addition to the weekdays there is another category of day: the special day, such as holidays.
See for further information.
"Holidays" apply throughout the system and thus cannot be saved separately for an object.
Prerequisites

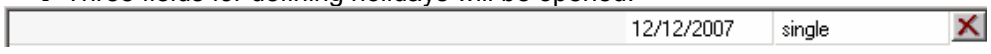
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Holidays** tab.
There are three options for defining the holiday:

- Click the **New entry** button.
  ➔ Three fields for defining holidays will be opened.
  or
- Double-click the white list field.
  ➔ Three fields for defining holidays will be opened.
  or
- Right-click on the background.
  ➔ The context menu opens.



2. Select **New entry**.
➔ Three fields for defining holidays will be opened.



3. Enter a name for the holiday in the text field.

You have two options to define a date for the holiday:

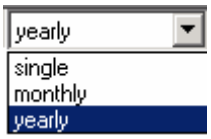
- Enter the desired date in the text field.
  – OR –

4. Click on the arrow next to the list field.
➔ The calendar will open.

5. Select the desired day on the calendar.

NOTE:
For annual repetition enter the year as of which the repetition is to occur. For monthly repetition enter the month and year as of which the repetition is to occur.

6. Select "single", "monthly" or "yearly" from the selection field.



7. Click **Apply**.
➔ The setting will be saved.

22.1.2 Importing holidays

You can import saved holidays with the **Import** button.
Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **System** tab.

2. Click the **Import** button .
➔ The **Open** dialog will open.

3. Select the holidays you want to import.

4. Click **Open**.
➔ The holidays will be imported.
➔ The **Open** dialog will close.

22.2 Deleting a holiday

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

Delete marked entries

1. Select the **Holidays** tab.
2. Click on the text field of the entry to be deleted.
You have two options to delete a marked entry:
3. Right-click on the background.
➔ The context menu opens.

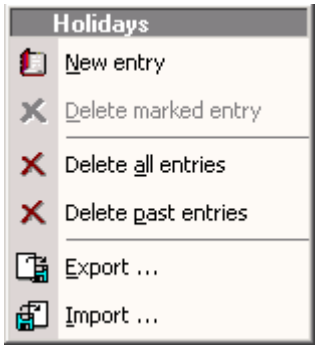


Fig. 160 Holidays context menu

4. Select **Delete marked entry**.
5. Answer **Yes** in the confirmation dialog.
➔ The entry will be deleted.
or
6. Click the **Delete** button after the entry you want to delete.
7. Answer **Yes** in the confirmation dialog.
➔ The entry will be deleted.

Delete all entries

1. Select the **Holidays** tab.
You have two options to delete all entries:
2. Right-click on the background.
➔ The context menu will open.
3. Select **Delete all entries**.
4. Answer **Yes** in the confirmation dialog.
➔ The entries will be deleted.
or
5. Click the **Delete all** button .
6. Answer **Yes** in the confirmation dialog.
➔ All entries will be deleted.

Deleting past entries

1. Select the **Holidays** tab.

You have two options to delete past entries:

2. Right-click on the background.

➔ The context menu will open.

3. Select **Delete past entries**.

4. Answer **Yes** in the confirmation dialog.

➔ The entries will be deleted.

or

5. Click the **Delete old** button.

6. Answer **Yes** in the confirmation dialog.

➔ The entries will be deleted.

22.3 Exporting holidays

The **Export** button can be used to back up holidays and transfer them to other systems.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- At least one holiday has been configured.
  See Section "Adding a holiday", page 177.

1. Select the **System** tab.

2. Click the **Export** button .

➔ The **Save As...** dialog will open.

3. Select the directory in which to save the holiday configuration.

4. Enter a name in the **File name** field.

5. Click **Save**.

The holiday configuration will be saved. The **Save As...** dialog will close.

23 Configuration management

23.1 Resetting the configuration

You can reset the configuration to the default settings using the **Reset configuration** button. The settings you have made in the **User management** tab will be maintained.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Information** tab.
2. Click the **Reset configuration** button.
3. Answer **Yes** in the confirmation dialog.
   ➔ The settings made in the **System** tab will be reset; the user configurations and system settings remain unchanged.

23.2 Importing a configuration

You can import saved configuration files with the **Import configuration** button.

NOTE:
- If the SISTORE MX NVS server has already been configured, this configuration will be replaced.
- Camera-specific rights can only be imported with the system configuration. When user configurations are imported, the users have all camera rights. The user administrator must check the assignment of rights individually.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in", page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Information** tab.
2. Click the **Import configuration** or **Import user configuration** button.
3. Answer **Yes** in the confirmation dialog.
   ➔ The **Open** dialog will open.
4. Select the configuration file you want to import.
5. Click **Open**.
   ➔ The configuration file will be imported. The **Open** dialog will close.

NOTE:
Following the import, check the drives enabled for recording in the System tab (see Section "General information about the storage location", page 130) and all backup settings in the Database tab (see Section "Selecting a storage location for the database", page 132 to Section "Selecting the type of recordings for backup", page 135). If the operating mode of the system was changed, delete all old recordings or create a new database (see User Manual).

23.3 Exporting the configuration

Note
When exporting the configuration, not all of the settings are backed up. Some of the settings, e.g. the language, cash dispenser or banking settings, will be lost during the export.
To duplicate a system please proceed as described in Section 23.4: Duplicating the system.

The **Export configuration** button can be used to back up the system and user configuration and transfer them to other systems.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Information** tab.

2. Click the **Export configuration** button .
➔ The **Save As...** dialog opens.
3. Select the directory in which to save the configuration.
4. Enter a name in the **File name** field.
5. Click **Save**.
➔ The configuration will be saved.
➔ The **Save As...** dialog will close.

23.4 Duplicating the system

You can create a complete duplicate of your SISTORE MX NVS setup by manually copying the configuration files from a source to a target system.

Prerequisites:
- SISTORE MX NVS (source system) has been started.
- An external storage medium (e.g. USB stick) is connected.

1. Close the SISTORE MX NVS application software on the source system.
2. In the source system, navigate to the directory "c:\program files\siemens\sistore mx nvs“.
3. Copy the following configuration files from the directory to an external storage medium (e.g. USB stick):
– SISTORE.dat
– SISTORE.bak
– SISTORE.map
– *.ini (all .ini files in the directory)
4. Start the target system.
5. Close the SISTORE MX NVS application software on the target system.
6. In the target system, navigate to the directory "c:\program files\siemens\sistore mx nvs“.
7. Copy the configuration files from the external storage medium into this directory.
➔ The **Confirm File Replace** dialog opens.
8. Click **Yes to All** in the **Confirm File Replace** dialog.
➔ The system is duplicated.

23.5 Printing the configuration

The **Print configuration** enables you to print out the configuration in formatted text form without graphics. First define what is to be printed.

Prerequisites

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.
- At least one printer is installed on your computer.

1. Select the **Information** tab.

2. Click the **Print configuration** button .
➔ The SISTORE MX NVS **Print options** dialog will appear.

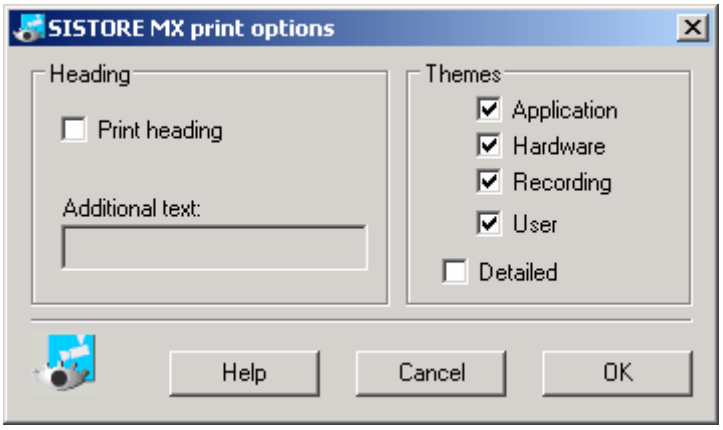


Fig. 161 SISTORE MX print options dialog

3. Mark the checkbox **Print heading**.

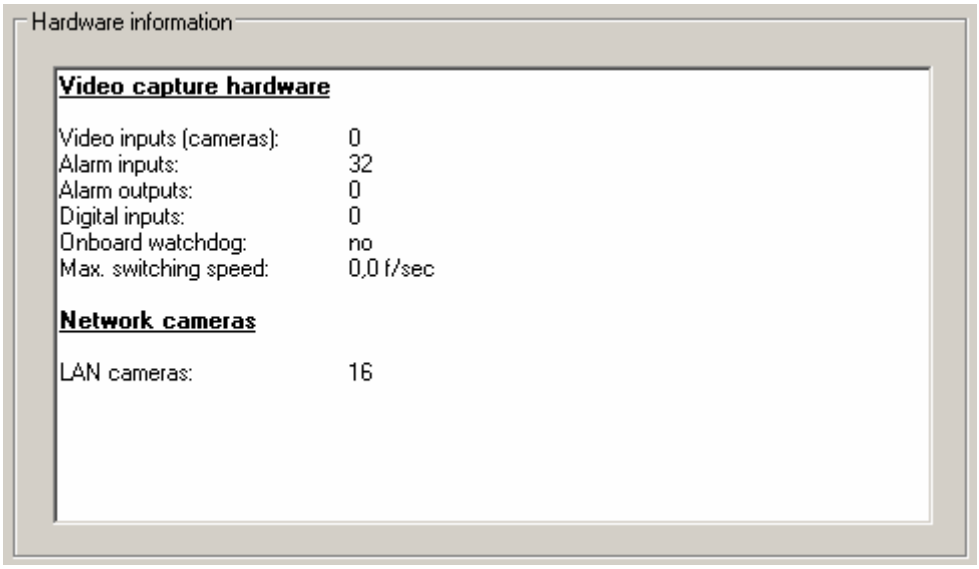
NOTE:
You can enter any text in the **Additional text** field. This will be shown on the title page and may not be longer than 64 characters.

4. Mark the information categories you want to print in the **Themes** group field.
5. Mark the checkbox **Detailed**.
6. Click **OK**.

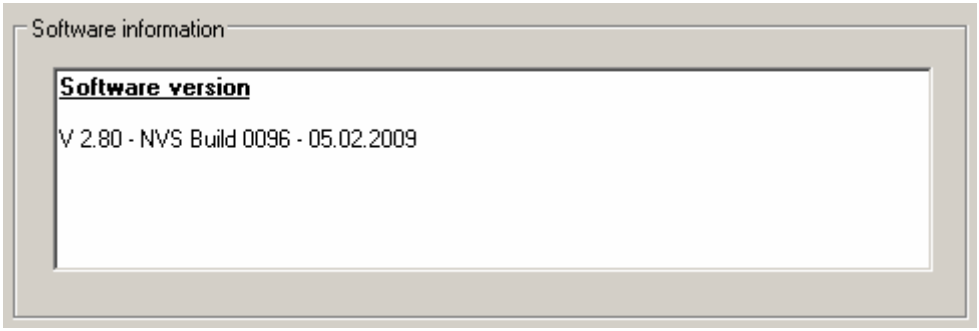
23.6 Showing the configuration and system data overview

- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Information** tab.



➔ The **Hardware information** field lists the technical data for the video recording hardware installed.



➔ The **Software information** field shows the version information. This information is also saved in the configuration file. Thus SISTORE RemoteView can also show with which software version (server) the configuration was saved.

23.7 Importing user configurations

You can import user configurations from a user configuration file using the **Import user configuration** button.

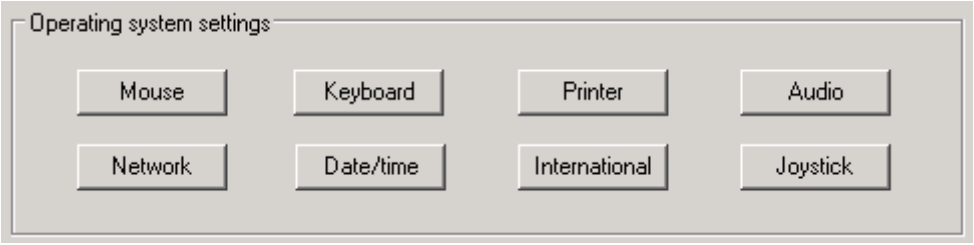
NOTE:
- If the SISTORE MX NVS server has already been configured, this configuration will be replaced.
- Camera-specific rights can only be imported with the system configuration. When user configurations are imported, the users have all camera rights. The user administrator must check the assignment of rights individually.

Prerequisites
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

1. Select the **Information** tab.
2. Click the **Import user configuration** button.
3. Answer **Yes** in the confirmation dialog.
➔ The **Open** dialog will open.
4. Select the configuration file you want to import.
5. Click **Open**.
➔ The user configuration will be imported. The **Open** dialog will close.

23.8 Opening operating system settings

You can access the operating system settings from the SISTORE MX NVS application software using the following buttons.



1. Select the **Information** tab.
2. Click the appropriate button.
➔ The operating system settings will be opened.

24 Testing the Watchdog

NOTE:
In order that the **Watchdog** function is available on a server PC, the PC system a must have an integrated Watchdog board.
We recommend integrating a Watchdog module type PWDOG1 from Quancom.
Further information can be found in the Installation Manual in chapter 6.2.

The Watchdog restarts the system in case of certain events, such as a server crash.

Function
If the PC system has an integrated Watchdog module from Quancom, this watchdog acts as a timer which closes a relay contact after a specified time. In normal operation, the timer of the SISTORE MX NVS server is continuously restarted so that it never runs out. If the system gets into a state in which it no longer reacts and can no longer reinitialize the watchdog, the timer runs out, the relay contact is closed and a restart is triggered via the reset line of the system.

Testing the Watchdog
Prerequisites
- The PC has an integrated Watchdog module from Quancom.
- The SISTORE MX NVS software has been started.
  See Section "Starting SISTORE MX NVS and logging in“, page 17.
- The SISTORE MX NVS software is in configuration mode.
  See Section "Opening configuration mode", page 18.

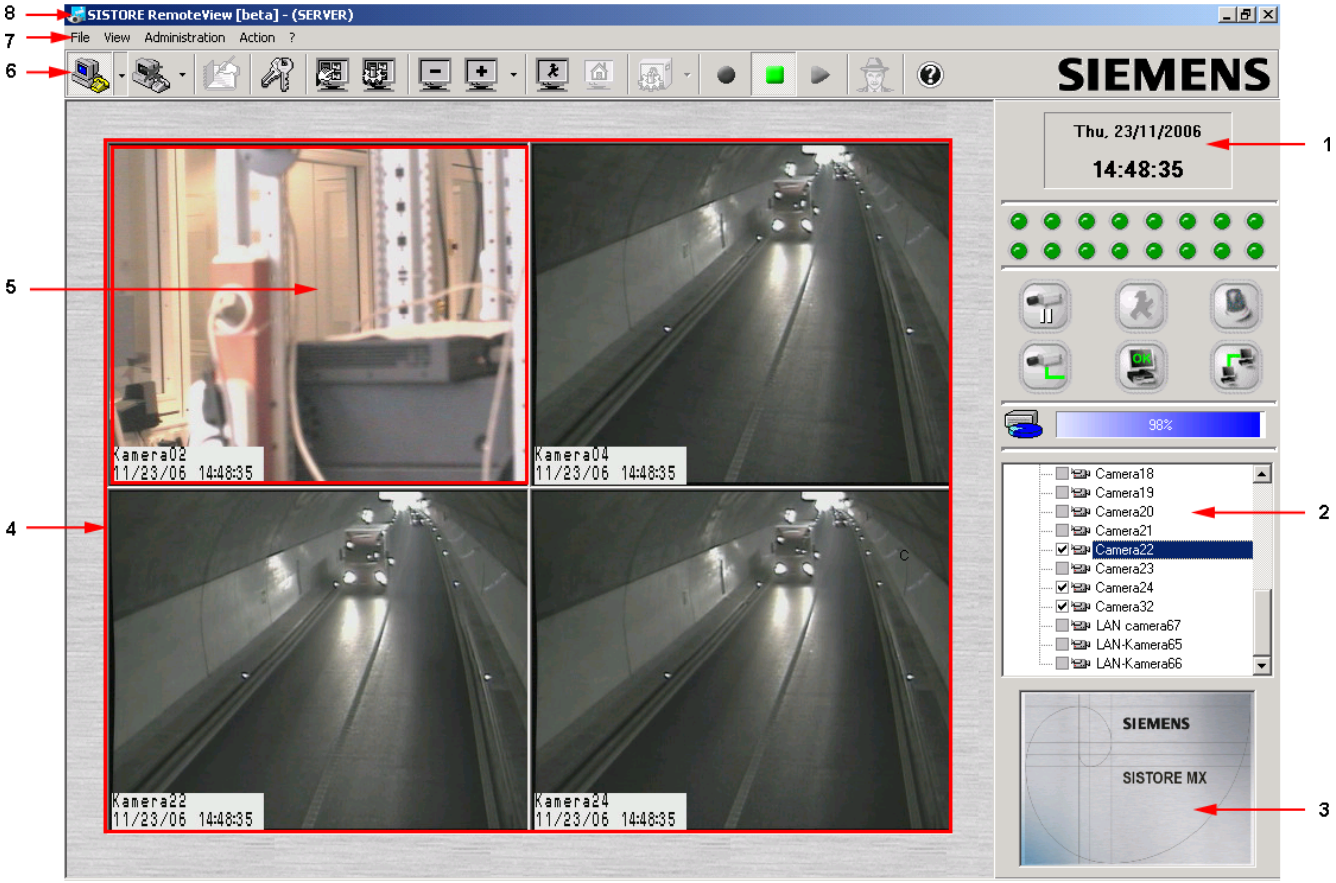
1. Select the **Watchdog** tab.
2. Click **Test**.
   ➔ The SISTORE MX NVS dialog will open.
3. If you want to avoid a reset of the system, pull the reset wire from the main board of the SISTORE MX NVS server.
4. Click **Yes**.
   ➔ The system will be closed down and restarted.

25 SISTORE RemoteView

25.1 Software description

25.1.1 Program window

The appearance and functions are similar to the display mode of SISTORE MX NVS. In the SISTORE RemoteView display mode, if there are multiple servers connected, the status displays of the selected server will be shown.



The SISTORE RemoteView program window contains the following components:

1	System status and system information.
2	Camera list The cameras associated with the connected servers are displayed below the corresponding server.
3	Starting image The starting image of the application will be shown if no PTZ camera is present or the logged in user does not have the right to control a PTZ camera.
4	Display area for video images
5	Video images
6	Toolbar
7	Menu bar
8	Title The name of the server that is currently active will be displayed.

A status bar can be switched on or off at the bottom of the program window. Further information on this can be found in the SISTORE MX User Manual.

SISTORE RemoteView toolbar

Nearly all the functions of the software can be invoked using the SISTORE RemoteView toolbar. Buttons with the same functions in SISTORE RemoteView have the same appearance as in SISTORE MX.

	Connecting to SISTORE MX
	Close the connection to SISTORE MX You can close a single connection or all at once.
	Show/hide logbook.
	Login with a new user name.
	Next display group. Manual switching to the next camera group.
	Automatic cycle Automatic switching to the next camera group.
	Fewer cameras.
	More cameras. Clicking the arrow symbol will open a window showing the possible display matrices.
	Show alarm window. An additional alarm window will be shown when an alarm occurs.
	Open map.
	Start recording.
	Stop recording.
	Start playback.
	Start virtual guard rounds.
	Open SISTORE RemoteView help.

25.1.2 Status displays

In the SISTORE RemoteView display mode, if there are multiple servers connected, the status displays of the selected server will be shown. To enable a server, the server or a camera of the server must be selected in the camera list.

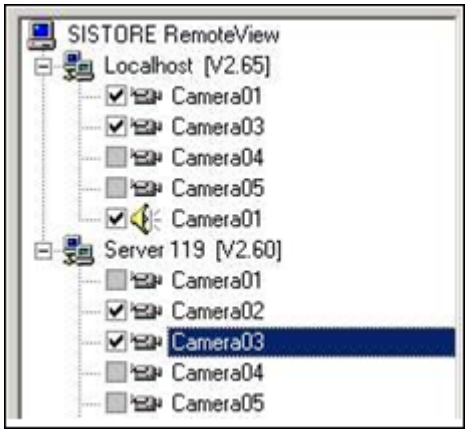


Fig. 162 Camera list

Server-specific status displays

- Time
- Alarm outputs
- Hard drive utilization
- System operating time
- Recording start/stop

Cross-server status displays

The cross-server status display reacts if one of the following events occurs on one of the connected servers:

- Motion
- Alarm
- Loss of video
- Camera tamper
- Fault
- Connection

25.1.3 Overview of functions

Single-server mode
- Configuration
- Restarting the system
- Software update
- CDM and cash box search
- Delete
- View logbook
- User management

Multi-server mode
- Acknowledge sabotage
- Acknowledge malfunctions
- Cancel alarm
- User management

Server-specific functions
- Test alarm
- Cameras on monitor
- Start/stop recording
- Change user
- Logbook comment

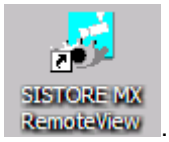
Camera-specific functions
Camera-specific functions can be assigned directly to the server belonging to the camera:
- Connection of a camera to an external monitor
- PTZ control

Multi-monitor mode
SISTORE RemoteView supports up to 4 monitors. The individual monitors can be configured as:
- Main monitor
- Display monitor
- Event monitor
- Site plan monitor
- Message dialog monitor

User management
You can assign administration rights for SISTORE RemoteView to one or several users.

25.2 Starting SISTORE RemoteView and logging in

1. Select the Windows menu sequence **Start > Programs > SISTORE MX REMOTEVIEW > SISTORE MX RemoteView**.
   – OR –
   Double-click on the desktop shortcut **SISTORE MX RemoteView**



   ➔ The application software will be started.

- Once the SISTORE RemoteView application software is started you can view alarm pictures without being logged in.
- To perform any functions or to exit the program you have to log in.

2. Click the **Login** button.
   ➔ The following dialog box opens.

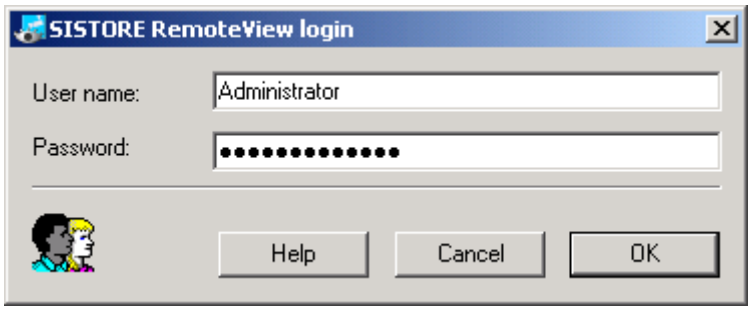


Fig. 163 "SISTORE RemoteView Login“ dialog

The user name and password are predefined. The entry is case-sensitive.

3. Enter "Administrator“ in the **User name** field.
4. Enter "Administrator“ in the **Password** field.
5. Click **OK**.

We advice to change the password after initial start-up. See Section 25.14.2 Creating and changing user accounts.

25.3 Opening configuration mode

Prerequisite:
- There is no connection to a server.

1. Select the menu sequence **Administration > Configure RemoteView**.
   ➔ The configuration mode will open (see Fig. 164).

The parameters for the SISTORE RemoteView application software are saved in the file SistoreRemoteView.dat.

25.4 Configuring network connections

25.4.1 Entering the system name

The system name is used primarily for identification of the system during remote access. Enter the location of the system, for example, as the name.

Prerequisites:

- The SISTORE MX NVS server is connected to the network.
- There is no connection to a server.

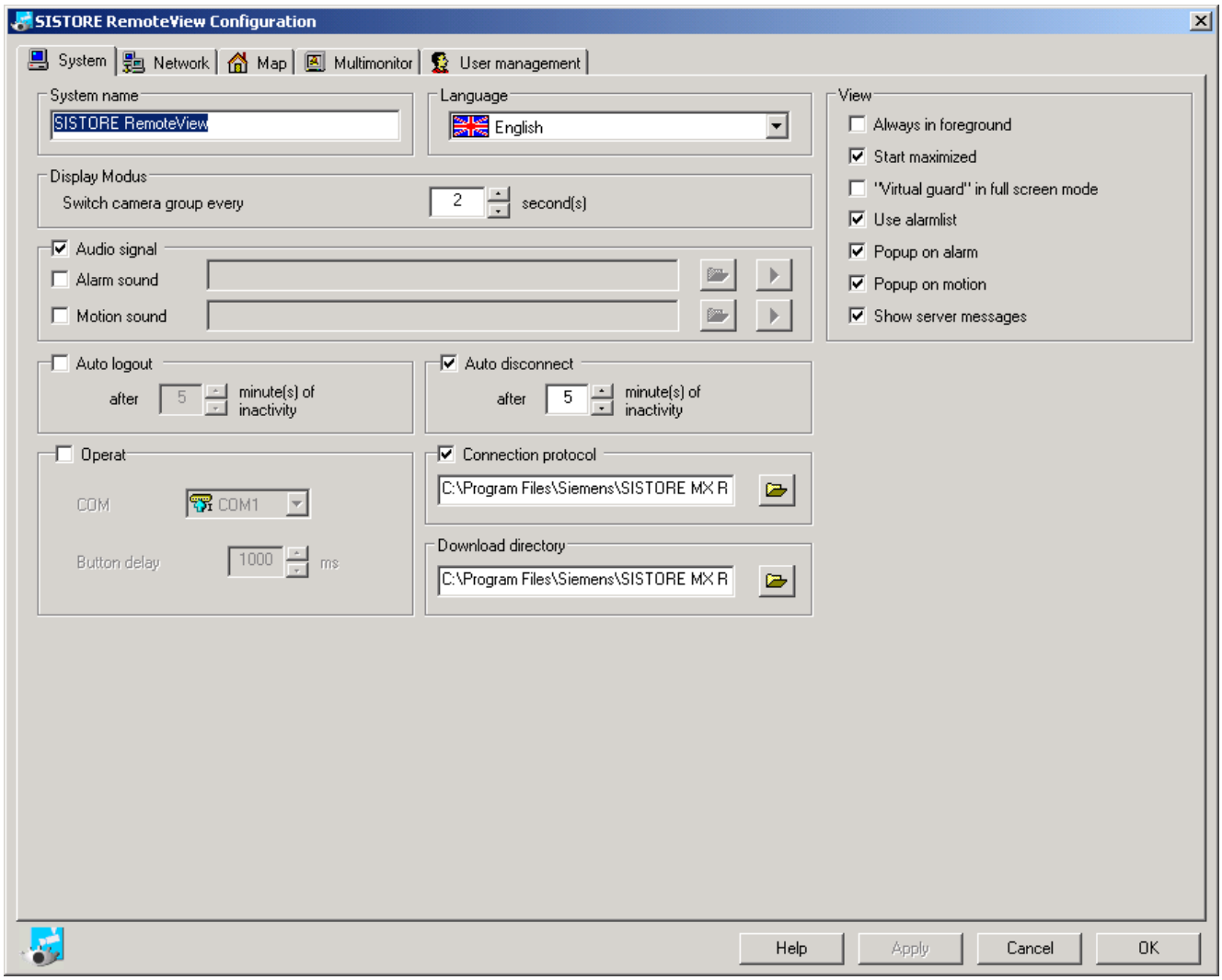


Fig. 164 SISTORE RemoteView – System tab

1. Select the **System** tab.
2. Enter the desired designation in the **System name** text field.
3. Click **Apply**.
   ➔ The setting will be saved.

25.4.2 Configuring the network connection

If you operate the SISTORE MX NVS application software or SISTORE RemoteView behind a firewall and want to access via a network, open all ports in the firewall that are used by the software.

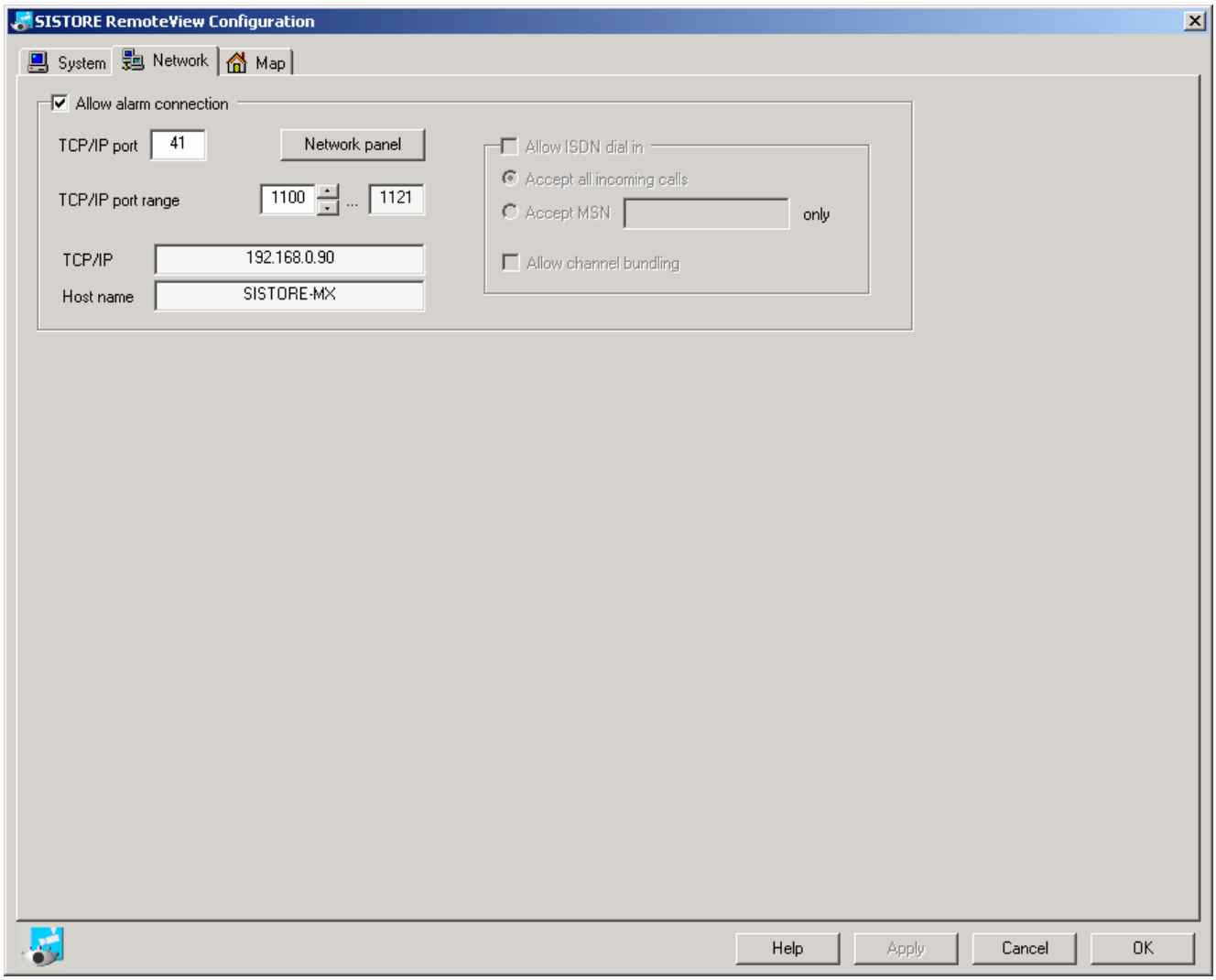


Fig. 165 SISTORE RemoteView – Network tab

Prerequisite:

- The SISTORE MX NVS server is connected to the network.

1. Select the **Network** tab.
2. Mark the checkbox **Allow alarm connection**.
3. Confirm the message that follows with **OK**.
4. In the **TCP/IP port** field, enter the number of the port at which the SISTORE RemoteView application software can be reached. Typically port 41 is used.
5. Enter the initial value of the TCP/IP port range in the field for **TCP/IP port range**.
6. The end value of the TCP/IP port range is determined automatically. It depends on the **max. clients** value: two ports are needed for each client.

The TCP/IP address is set during the configuration of the network card. If there is more than one network card in a computer, it is possible that the TCP/IP address shown here will not be that of the LAN card but instead one for another network card.
The host name is shown for information only and is not used by SISTORE RemoteView for any other purpose.

7. Click **Apply**.
➔ Your settings will be saved.
➔ An information message is displayed.
8. Click **OK**.
➔ You are prompted to restart the application.
9. Click **Yes**.
➔ The SISTORE RemoteView application is closed.

25.4.3 Configuring ISDN dial-in

Accept all incoming calls

Use the ISDN modem AVM FRITZ! USB v2.0.
We cannot guarantee proper function with other ISDN modems that have not been tested by us.

The SISTORE MX NVS application software and SISTORE RemoteView are **not downward compatible** as of version 2.2.
The SISTORE RemoteView application software reacts only to ISDN calls with the service indicator for **data**. Thus SISTORE RemoteView or the SISTORE MX NVS application software can be operated on an ISDN connection in parallel to ISDN devices with other service indicators.

Prerequisites:
- An ISDN modem is connected to the SISTORE unit.
- An ISDN modem is connected to the client PC (SISTORE RemoteView).

1. Select the **Network** tab (see Fig. 165).
2. Mark the checkbox **Allow ISDN dial-in**.
3. Click the option field **Accept all incoming calls**.
4. Click the option **Accept MSN ... only**.
5. Enter the desired multiple subscriber number in the **Accept MSN … only** text field.
6. If 2 channels are to be permitted for an ISDN connection, mark the checkbox **Allow channel bundling**.
7. Ensure that the checkbox **Allow channel bundling** is not marked if a B channel is to be kept free for a separate line (such as an alarm system).
8. Click **Apply**.
➔ The setting will be saved.

25.5 Selecting the user interface language

1. Select the **System** tab (see Fig. 164).
2. Select a language version from the **Language** list box.
   If you select the entry **automatic**, the SISTORE RemoteView application software starts in the language set as the regional language in the operating system.
3. Confirm the message that follows with **OK**.
4. Click **Apply**.
5. Select **Exit** in the **File** menu.
6. Restart the SISTORE RemoteView application software.
   ➔ The SISTORE RemoteView application software now uses the selected language.

25.6 Configuring the display area

25.6.1 Selecting the initial display mode

1. Select the **System** tab (see Fig. 164).
2. Mark the desired checkbox in the **View** group field (see Fig. 166).
3. Click **Apply**.
   ➔ The setting will be saved.

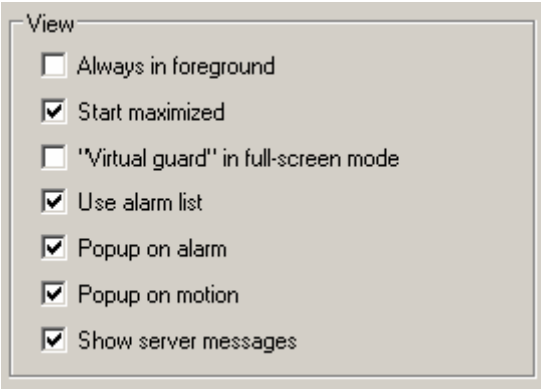


Fig. 166 "View" group field on the "System" tab

Name of the checkbox	Function
Always in foreground	The SISTORE RemoteView application software will always be shown in the foreground and cannot be covered up by another application.
Start maximized	The SISTORE RemoteView application software will always open maximized and can be covered up by other applications.
"Virtual guard" in full screen mode	The virtual guard will run in full screen mode. Only video images will be visible. See Section 25.16 Virtual guard.
Use alarm list	The alarm lists of the connected servers will be displayed in SISTORE MX RemoteView.
Popup on alarm	A pop-up window will open when an alarm occurs.
Popup on motion	A pop-up window will open when a motion is detected.
Show server messages	Messages that are displayed on the server are also transferred to SISTORE RemoteView.

25.6.2 Configuring live image dwell times

1. Select the **System** tab (see Fig. 164).
2. In the field **Switch camera group every** in the **Display Mode** group field select the period (between 2 and 600 seconds) after which the switch is to be made to the next camera group.
3. Click **Apply**.
   ➔ The setting will be saved.

25.7 System message configuration

In the **View** group field you can specify that the SISTORE RemoteView application software is automatically shown in the foreground if an alarm occurs or motion is detected.

1. Select the **System** tab (see Fig. 164).
2. Mark the checkbox **Popup on alarm** in the **View** group field.
3. Mark the checkbox **Popup on motion** in the **View** group field.

In the **Audio signal** group field you can specify that an audio file is played if an alarm occurs or motion is detected.

4. Mark the checkbox **Audio signal**.
   ➔ The **Audio signal** group field will be enabled.
5. Mark the checkbox **Alarm sound**.
   ➔ The audio file will be shown in the text field.
6. Mark the checkbox **Motion sound**.
   ➔ The audio file will be shown in the text field.
7. If you want to select another audio file, click the **Open** button.
   ➔ The **Open** dialog will open.
8. Select the desired audio file.
9. Click **Open**.
   ➔ The audio file will be shown in the text field.
10. If you want to play the audio file to test it, click the **Play** button.
    ➔ The audio file will be played.
11. Click **Apply**.
    ➔ The setting will be saved.

25.8 Enabling automatic logout

In the **Auto logout** group field you can determine whether a user is automatically logged out after a specified period of inactivity.

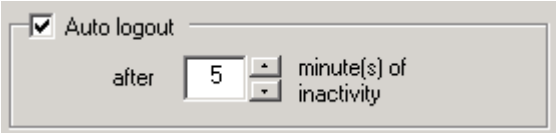


Fig. 167 "Auto logout" group field on the "System" tab

1. Select the **System** tab (see Fig. 164).
2. Mark the checkbox **Auto logout**.
3. In the **minute(s) of inactivity** field, specify the time after which the automatic logout is to occur.
4. Click **Apply**.
   ➔ The setting will be saved.

- Before the user is automatically logged off, the lock icon in the status bar will flash for one minute. If the user performs an action during this time, the icon will stop flashing and time starts counting again.
- If the **Auto disconnect** option is activated, time will start counting after the connection has been terminated. See Section 25.9.1 Enabling automatic termination of the connection.

25.9 Configuring connections

25.9.1 Enabling automatic termination of the connection

By activating the option **Auto disconnect** you can determine whether the connection to the SISTORE NX NVS server is terminated automatically after a predifined period of inactivity on the part of the user.

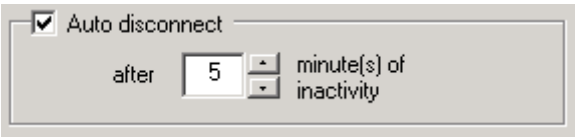


Fig. 168 "Auto disconnect“ group field on the "System“ tab

1. Select the **System** tab (see Fig. 164).
2. Mark the checkbox **Auto disconnect**.
3. In the **minute(s) of inactivity** field, specify the time after which the connection is to be terminated.
4. Click **Apply**.
   ➔ The setting will be saved.

25.9.2 Enabling connection logging

In the **Connection protocol** section you can select whether a protocol is to be made. The images received by the RemoteView client will be saved to the selected directory.

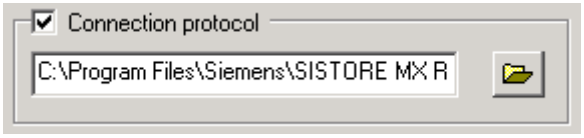


Fig. 169 "Connection protocol" group field on the "System" tab

1. Select the **System** tab (see Fig. 164).
2. Mark the checkbox **Connection protocol**.
3. Click **Open**.
   ➔ The **Select directory** dialog will open.
4. Select the desired folder.

Ensure that the selected storage medium has sufficient capacity, or select a network drive.

5. Click **Select**.
6. Click **Apply**.
   ➔ The setting will be saved.

25.9.3 Selecting the download directory

In the **Download directory** section you can specify in which directory the configuration files are saved that are received from the server and needed for the remote configuration.

1. Select the **System** tab (see Fig. 164).
2. Click the button **Open** in the **Download directory** group field.
   ➔ The **Select directory** dialog will open.
3. Select the desired folder.

Ensure that the selected storage medium has sufficient capacity, or select a network drive.

4. Click **Select**.
5. Click **Apply**.
   ➔ The setting will be saved.

25.9.4 Connecting to SISTORE MX NVS

In multi-server mode it is possible to view live images or stored recordings from different servers on the SISTORE RemoteView client. Connections can be made to up to 10 servers simultaneously. The connected servers and the associated cameras will be listed in the live image display area. Up to 10 x 96 = 960 camera can be included in the list. It is possible to transmit live and recorded audio for both and LAN and analog cameras.

When several SISTORE RemoteView clients are at the same time connected to the same servers, there is a higher network load and a higher CPU load of the server.

There are three possible ways to set up a connection:

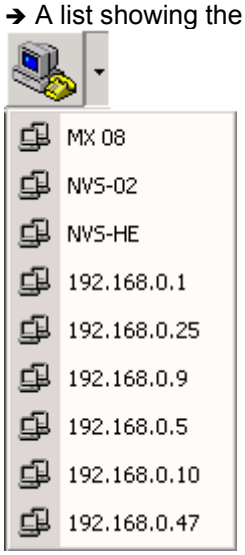
- Connecting to SISTORE MX NVS using the toolbar
- Connecting to SISTORE MX NVS via the address book
- Connecting to SISTORE MX NVS via the map

As of version 2.80, the logon to the SISTORE MX NVS application software will take place automatically if the user name and password for SISTORE MX NVS und SISTORE RemoteView are identical. If this is not the case, the user will have to log in manually.

Connecting to SISTORE MX NVS using the toolbar

This function is not available during initial connection setup as the list only shows a history of the connections.

1. Open the list box next to the icon **Connect**.
➔ A list showing the connections to SISTORE MX servers appears.



The upper section of the list displays the links to up to 10 SISTORE MX servers that were dialled in last. The bottom section of the list shows the first 10 entries of the address book. Favoured connections will only be displayed if there are one or several entries in the address book.

2. Select a connection.
➔ The connection will be established.

Connecting to SISTORE MX NVS via the address book

1. Open the address book. See Section 25.11.1 Opening the address book.
2. Select the desired connection.
3. Click on **Connect**.
➔ The connection will be established.

Connecting to SISTORE MX NVS via the map

Prerequisite:

- The map is open. See Section 25.1.1 Program window.

1. Double-click on a server symbol in the map.
   ➔ The connection will be established.

25.10 Enabling the control panel

25.10.1 Selecting the serial interface

Prerequisite:

- The CKA driver is installed and the icon is displayed in the task bar. For information on the subsequent installation of hardware drivers please refer to the Installation Manual.

1. Select the **System** tab (see Fig. 164).
2. Mark the checkbox **Operating console**.
3. Select the serial interface to which your control panel is connected from the **COM** field.
4. Click **Apply**.
   ➔ The setting will be saved.

25.10.2 Enabling button delay

With the checkbox **Button delay** you can define the period after which input from the control panel is transmitted to the SISTORE RemoteView application software.

1. Select the **System** tab (see Fig. 164).
2. Mark the checkbox **Operating console**.
3. Select a value for the button delay in the field **Button delay**.
4. Click **Apply**.
   ➔ The setting will be saved.

25.11 Configuring the address book

25.11.1 Opening the address book

Prerequisite:

- You will be in display mode.

Open address book

1. Click the button **Connect** in the toolbar.

– OR –

Select the menu sequence **File > Setup connection**.

➔ The following dialog box opens.

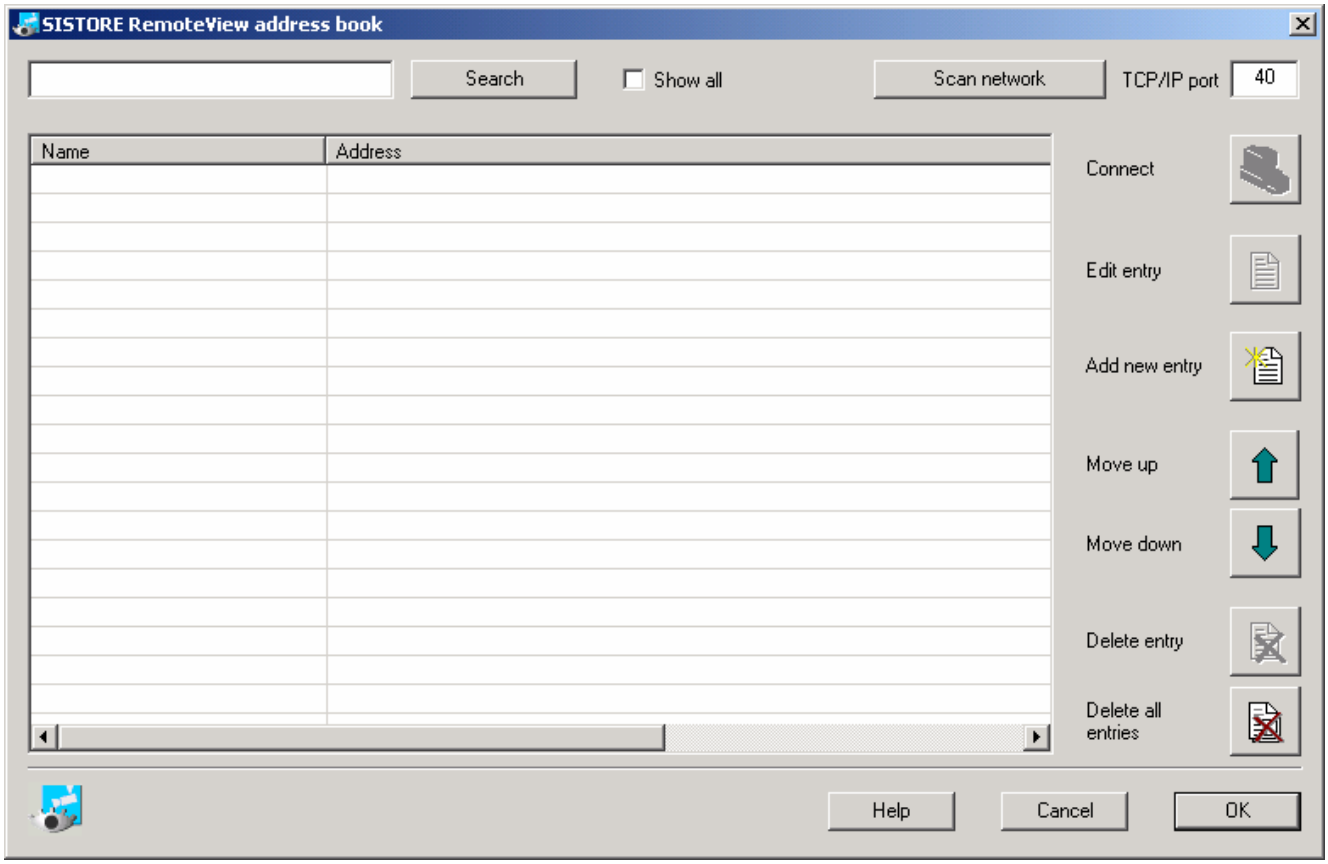


Fig. 170 SISTORE RemoteView address book

➔ The fields **Name** and **Address** will be shown.

25.11.2 Show all

Prerequisite:

- The address book is open. See Section 25.11.1 Opening the address book.

1. Mark the checkbox **Show all**.
   ➔ The fields **Connection**, **Duration**, **Cameras**, **Server name/IP address**, are displayed.

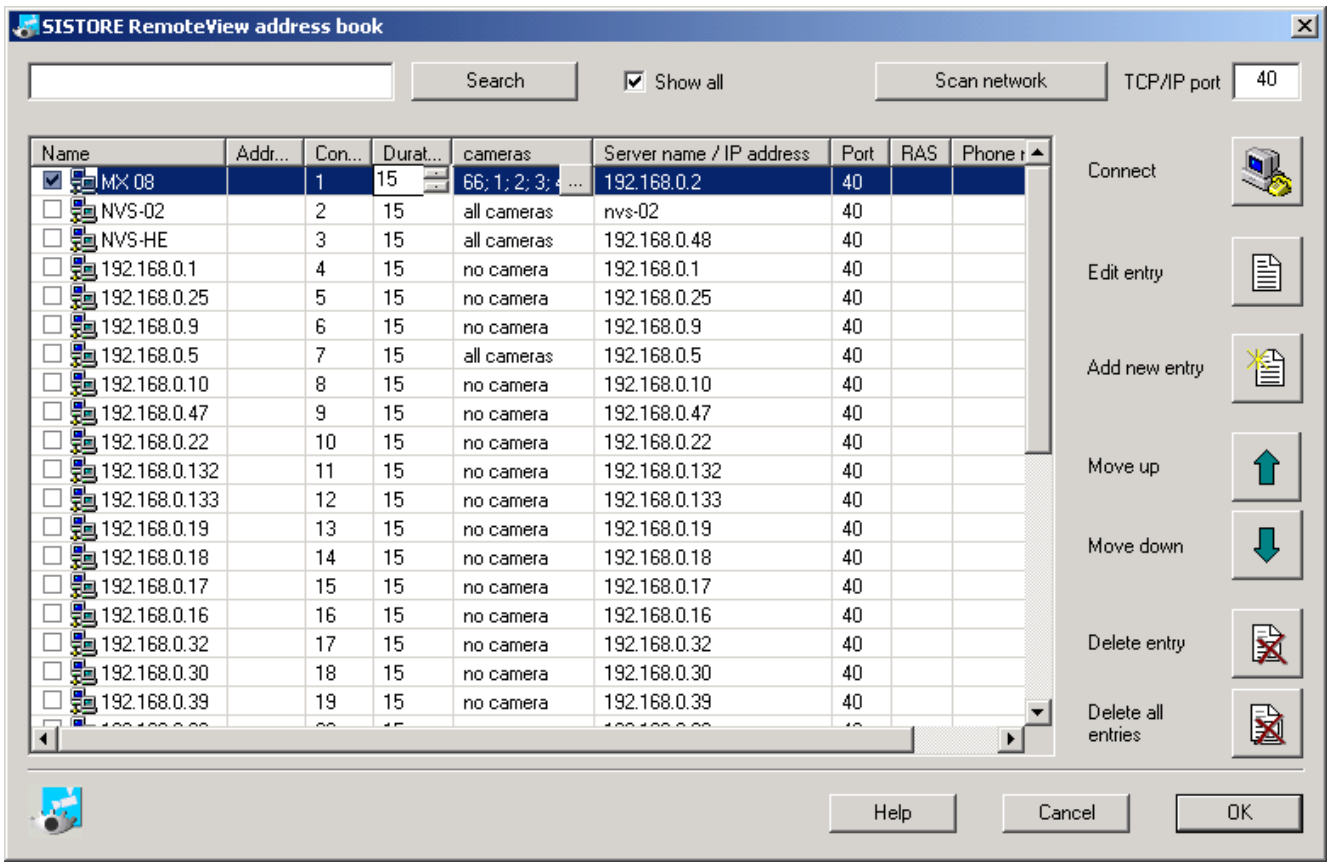


Fig. 171 SISTORE RemoteView address book

Field	Meaning
Name	In the **Name** field you can activate the Virtual guard function for the particular connection. See Section 25.16 Virtual guard.
Address	Location of the SISTORE MX NVS server.
Connection	The **Connection** field is a function of the virtual guard. It indicates the order in which the connections to the servers will be set up.
Duration	The **Duration** field is a function of the virtual guard. Here you can define for how long the pictures supplied by the cameras at the site that is currently connected to RemoteView will be displayed when the virtual guard function is activated.
Cameras	Clicking in this field will open a window. Here you can select the **cameras**, **audio connections** and **LAN connections** to be displayed in the address book.
Server name / IP address	Server name or the IP address of the server.
Port	Number of the port.
RAS	Number of the RAS connection.
Phone number	Phone number of the ISDN connection.

25.11.3 Adding an entry

Prerequisites:

- The address book is open. See Section 25.11 Configuring the address book.

1. Click the **Add new entry** button.

➔ The following dialog box opens.

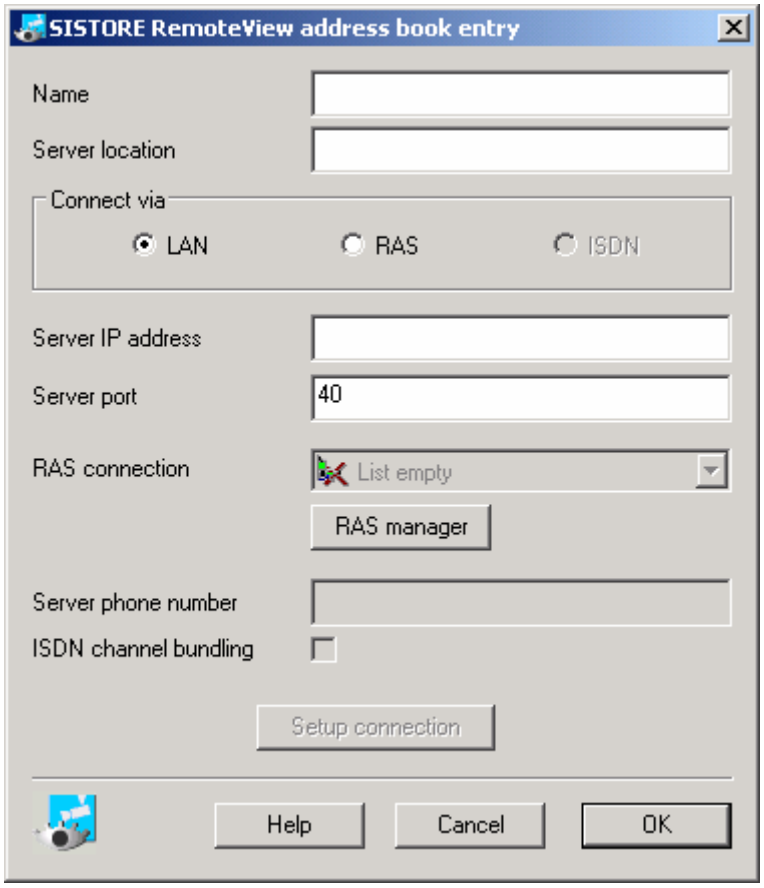


Fig. 172 SISTORE RemoteView address book entry dialog

2. Select the desired connection type in the **Connect via** section. Make sure that the necessary configurations have been made for each connection type.

3. Make the necessary entries in the text fields.

- It is possible to make several entries for an IP address in the address book. This permits cameras to be combined in groups and their pictures to be displayed over different connections.
- Only ciphers and the symbols **( ) -** can be entered in the text field **Server phone number**.
- Filling in the field **Server location** is optional.

4. Control connect

5. Click on **Connect**.

➔ The connection will be established.

➔ The progress of the data transmission is displayed in a window. When the progress display reaches 100 % the connection has been set up and the window is closed.

To set up a connection you must have the authorisation "remote access". Remote access also has to be authorised in the configuration mode of SISTORE MX in the "Allow network access" field.

➔ A password query dialog will open.

6. Enter your **user name** and **password**.

7. Click **OK**.
➔ The connection has been established.

25.11.4 Editing entries

Prerequisites:
- The address book is open. See Section 25.11.1 Opening the address book.

1. Select the entry you with to edit.
2. Click the **Edit entry** button.
➔ The **SISTORE MX address book entry** window will open. For information on editing address book entries see Section 25.11.3 Adding an entry.

25.11.5 Deleting entries

Prerequisite:
- The address book is open. See Section 25.11 Configuring the address book.

Delete individual entries
1. Click on the text field of the entry to be deleted.
2. Click on **Delete entry** .
3. Answer **Yes** in the confirmation dialog.
➔ The entry will be deleted.

Delete all entries
1. Select **Delete all entries**.
2. Answer **Yes** in the confirmation dialog.
➔ All entries will be deleted.

25.11.6 Sorting entries

Using the buttons **Move up** and **Move down** you can set the sequence of the connections. This order of priorities will also be used by the virtual guard and for rapid connection set-up.

Prerequisites:
- The address book is open. See Section 25.11 Configuring the address book.

1. Sort the address book entries according to the order of the connection. Click on the column header **Connection**.
2. Click **Move up**.
➔ The entry will be moved up.
3. Click **Move down**.
➔ The entry will be moved down.
4. If you need to sort several entries, repeat steps 1 and 2 as necessary.

25.11.7 Specifying the camera selection

Using the button , you can select the cameras whose live images are to be displayed after a connection has been set up.

In the SISTORE RemoteView application software, a maximum of 36 cameras can be displayed simultaneously. In the live picture, in contrast to SISTORE MX the titles “REC“, “STOP“ or “DET“ are not available.

Prerequisite:

- The address book is open. See Section 25.11.1 Opening the address book.

1. Click on the desired connection.

➔ The button appears.

2. Click the button.

➔ The **Select cameras** window will open.

➔ A connection to the selected server will be established in the background.

➔ The **Please wait** dialog window will open.

There are two options for how the cameras are shown in the **Select cameras** window:

- The connection to the server has been established.

The cameras configured on the server are listed (with name).

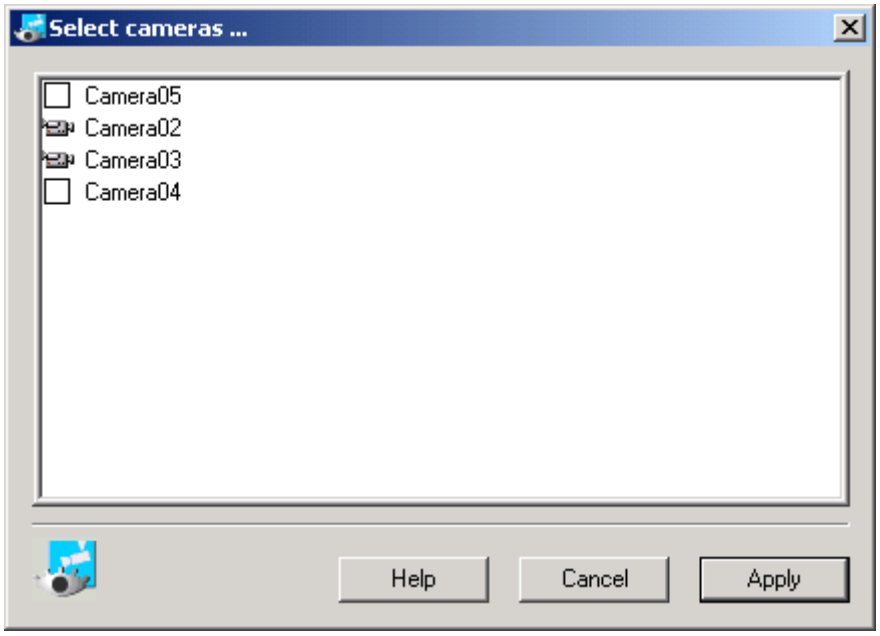


Fig. 173 Select cameras – with server connection

– OR –

- No connection to the server has been established.

A numbered list is shown for selection of the cameras. The camera names are displayed only if there is a connection to the server.

Nos. 1 to 64 of the list are reserved for analog cameras, no. 65 and higher are for LAN cameras.

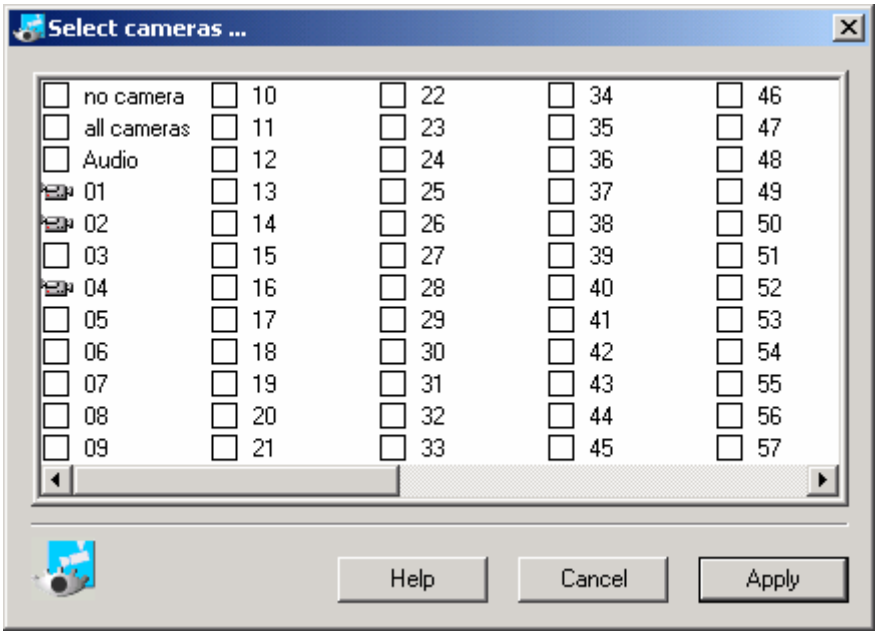


Fig. 174 Select cameras – without server connection

3. Tick the checkbox next to the desired camera.
4. Repeat this step until you have selected the required cameras.

The options **No cameras** and **All cameras** allow a fast selection of cameras.

5. Click **Apply**.
➔ The setting will be saved.

25.11.8 Searching for SISTORE MX servers

You can search for SISTORE MX servers in the address book with the **Search** button. Using the **Scan network** button you can search the local network for a SISTORE MX server.

Prerequisite:
- The address book is open. See Section 25.11 Configuring the address book.

You have two options to search for a SISTORE MX server:
1. Click on **Search**.
➔ The address book will be searched for SISTORE MX Servers.
➔ All existing SISTORE MX Servers on the network will be displayed.
– OR –
2. Enter the port in the **TCP/IP Port** text field.

The search is performed only on a specified port. If there are SISTORE MX servers in the local network with different ports, a search will have to be made for each port. This function is currently only available for class C networks yyy.yyy.yyy.xxx (yyy are fixed, xxx variable).

3. Click on **Scan network**.
4. Answer **Yes** in the confirmation dialog.
➔ The local network will be searched for SISTORE MX servers.
➔ All SISTORE MX Servers that are not yet listed in the address book will be entered there automatically.

In view of the restrictions of the operating system version Windows XP ServicePack 2, the **Search network** procedure can take several minutes.

25.12 Configuring the map

In SISTORE RemoteView, maps are configured for the following objects: Addresses (= locations of SISTORE MX NVS servers) and other maps. For this, the SISTORE MX NVS server must have been configured in the SISTORE RemoteView address book.
In the SISTORE MX NVS configuration software, maps of the objects that are connected to the SISTORE MX NVS servers (cameras, alarm inputs, alarm outputs, maps) are configured.
When both maps have been configured, the map will be transferred to SISTORE RemoteView as soon as a connection between the SISTORE MX NVS server and the SISTORE RemoteView client is set up.

1. Select the **Map** tab.
➔ The following dialog box opens.

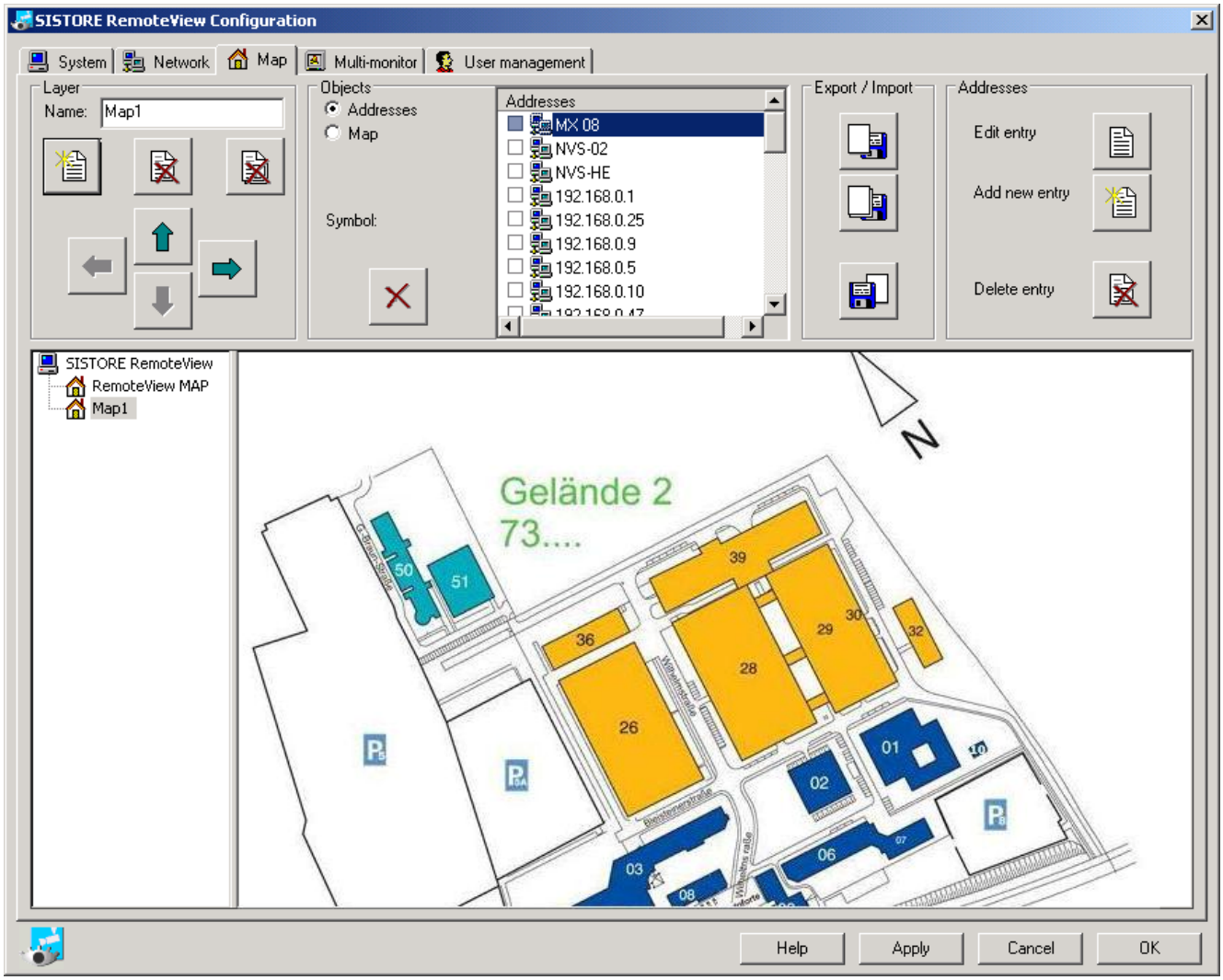
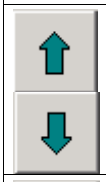
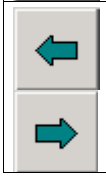


Fig. 175 SISTORE RemoteView – Map tab

2. Configure the map using the following icons.

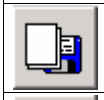
Layer

Name	Name of the map. The map will be displayed in the tree view with the name entered here.
	Add map to the tree view
	Delete map selected in the tree view
	Delete all maps
	Move map one position up/down.
	Move map one hierarchy level to left/right. A maximum of 2 hierarchy levels can be created (one subordinate level per main level).

Objects

Addresses	The addresses entered in the phone book will be listed. The addresses can be placed on the map just like in the case of SISTORE MX (see below).
Map	Alls the maps available in SISTORE RemoteView will be displayed. Using this option the maps can be linked. See Section 12.4 Linking a map.
	Delete an address from the list.

Export / Import

	Export current layer
	Export all layers
	Import one or several layers

Addresses

	Edit the selected address book entry
	Add a new connection to the address book
	Delete the selected entry

25.12.1 Importing a map

Maps are imported automatically when a connection to the server is established. Changes made to server maps are automatically transferred to SISTORE RemoteView the next time a connection is made.

1. Select the **Map** tab.
2. Click on **Import**.
➔ The **Open** dialog will open.
3. Select the map to import.
4. Click **Open**.
➔ The map will be imported.

Remote configuration of the map on the server is not possible!

25.12.2 Exporting a map

Prerequisite:
- The SISTORE MX NVS application software has been started. See Section 5.1 Starting SISTORE MX NVS and logging in.

1. Select the **Map** tab.
2. Click on the map to export in the map list.
3. Click the **Export** button .
➔ The **Save As...** dialog will open.
4. Select the directory in which to save the map as a ***.map file**.

You can save the map as a ***.map file** on an external data medium, on a network drive, or locally in the map directory on the RemoteView client, e.g.: C:\...\SISTORE MX\Map.

5. Enter a name in the **File name** field.
6. Click **Save**.
7. Click **Apply**.
➔ The map will be saved.

Remote configuration of the map on the server is not possible!

25.12.3 Placing address objects on the map

An address object can be placed on several maps, however only once per map. A maximum of 192 objects can be placed.

1. Select the **Map** tab.
2. Select the **Addresses** option in the **Objects** group field.
3. Select the appropriate address object in the address list.
4. Left-click on the desired position on the map.
➔ The address object will be placed on the map.

The placement of the address object is confirmed in the selection list by a mark in the checkbox.

25.12.4 Deleting address objects from the map

1. Select the **Map** tab.
2. Select the **Addresses** option in the **Objects** group field.
3. Remove the checkmark in front of the relevant address object in the address list.
   – OR –
   Right-click on the particular object and select **Delete** from the context menu.
   ➔ The address object will be deleted.
4. Click **Apply**.
   ➔ The setting will be saved.

25.12.5 Selecting the map view

View of the site plan without connection to a server

Prerequisites:
- A user is logged on to SISTORE RemoteView.
- There is no connection to a server.

1. Click the button **Show map** in the toolbar.
   ➔ The following view of the map will appear.

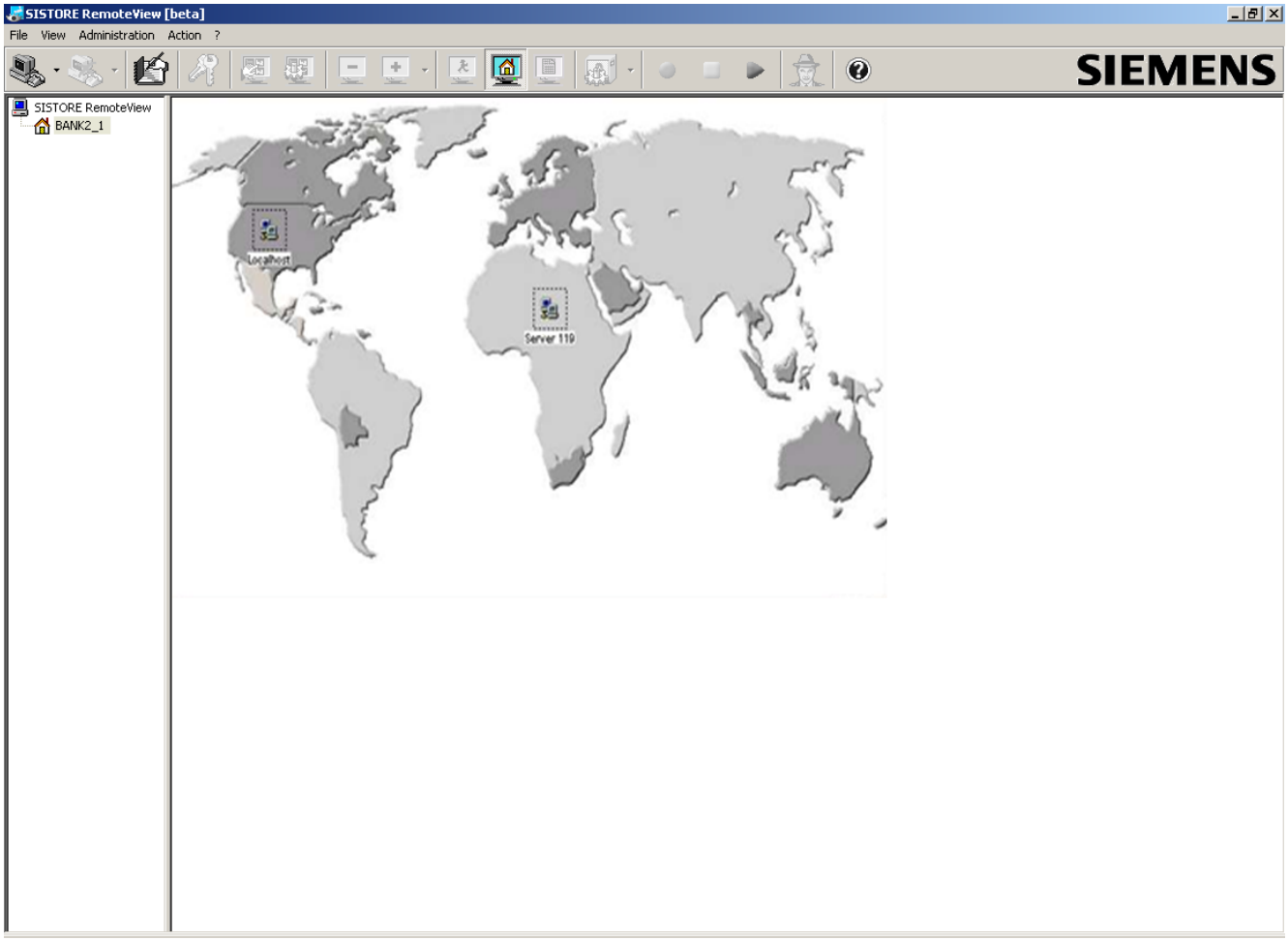


Fig. 176 SISTORE RemoteView map without server connection

View of the site plan with connection to a server

1. Select the menu sequence **File > Setup connection**.

– OR –

Click the button **Connect** in the toolbar.

➔ The address book will open.

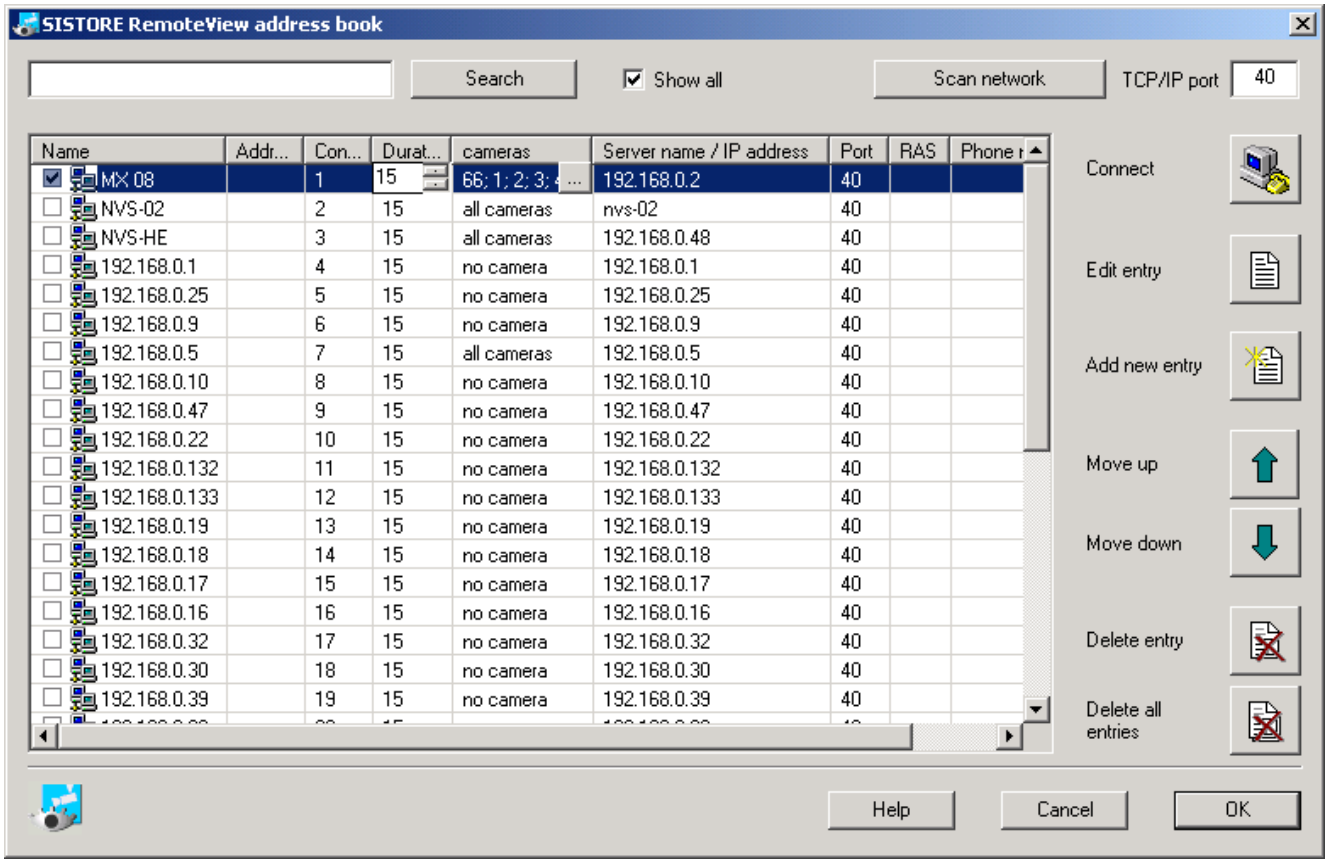


Fig. 177 SISTORE RemoteView address book

2. Select a server.

3. Click the button **Connect**.

➔ The following dialog box opens.

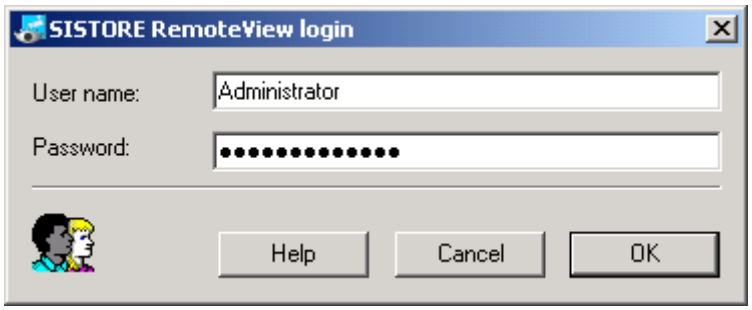


Fig. 178 SISTORE RemoteView Login

4. Enter your user name and password.

5. Click **OK**.

➔ The connection to the server has been established.

Only one connection can be established to a server at a time.

6. Click the map display button in the toolbar.

➔ The following view of the map will appear.

Fig. 179 SISTORE RemoteView map with server connection

If you move the mouse pointer over an object on the map in this view, the following object information will be shown in an tooltip:

- Object name and description
- IP address and port of the server

25.13 Configuring multi-monitor mode

In order to use multi-monitor mode, the monitors must be configured in Windows: **Start > Control Panel > Display > Settings**. Please note that the configuration of the monitors in Windows can only be changed when the SISTORE MX NVS application software is closed.

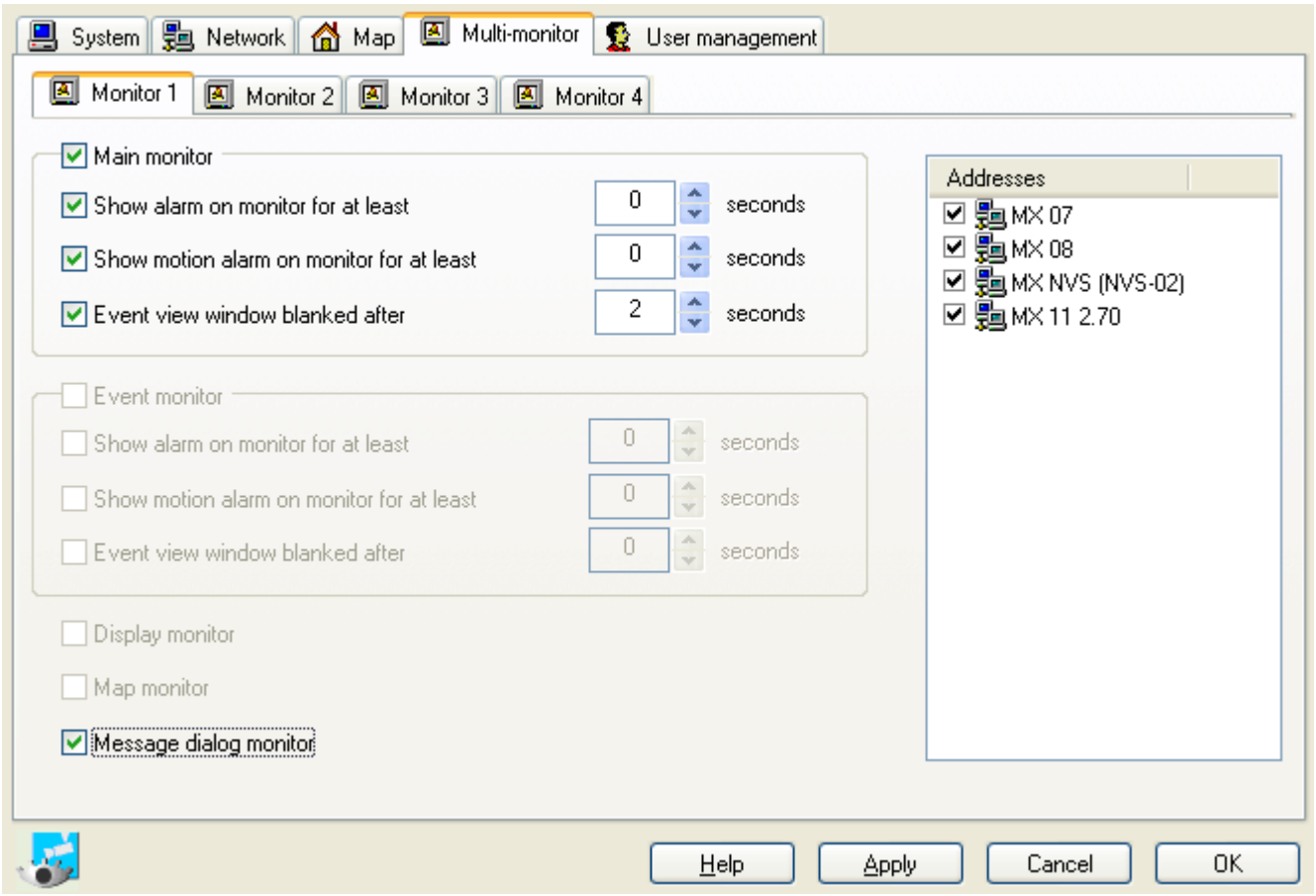


Fig. 180 SISTORE RemoteView – Multi-monitor tab

SISTORE RemoteView supports up to 4 monitors. The individual monitors can be configured as:

- Main monitor
  See Section 25.13.1 Configuring a monitor as the main monitor.
- Display monitor
  See Section 25.13.2 Configuring a monitor as a display monitor.
- Event monitor
  See Section 25.13.3 Configuring a monitor as an event monitor.
- Site plan monitor
  See Section 25.13.4 Configuring a monitor as a site plan monitor.
- Message dialog monitor
  See Section 25.13.5 Configuring a monitor as a message dialog monitor.

25.13.1 Configuring a monitor as the main monitor

The main monitor displays the operator interface of the application software. The application software can be configured and operated via this monitor.

IMPORTANT Exactly 1 monitor must be configured as the main monitor.

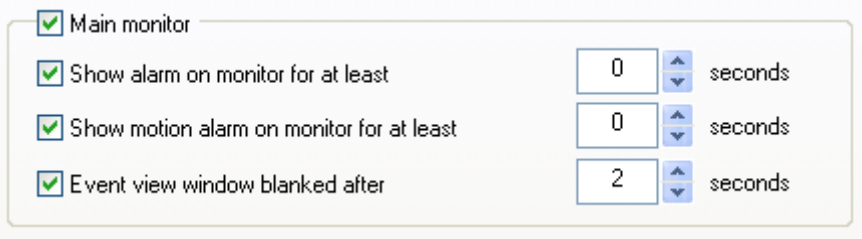


Fig. 181 Multi-monitor tab – Configuration of the main monitor

Prerequisite:

- The main monitor has not been configured yet.

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Main monitor**.
3. If you want to view events on the main monitor, mark the corresponding checkboxes and select the duration in seconds.

Option	Meaning
Show alarm on monitor for at least … seconds	Minimum time for which an alarm event will be displayed. New alarm events will not be displayed during this time. You can select a time between 0 and 60 seconds. 0 seconds means that an image will be removed from the screen as soon as another alarm event occurs.
Show motion alarm on monitor for at least … seconds	Minimum time for which a motion alarm event will be displayed. New motion alarm events will not be displayed during this time. You can select a time between 0 and 60 seconds. 0 seconds means that an image will be removed from the screen as soon as another motion alarm event occurs.
Event view window blanked after … seconds	Period of time after which the event view window will be blanked. You can select a time between 2 and 300 seconds.

4. Mark the checkboxes of the SISTORE MX NVS servers whose live images are to be displayed on the main monitor in the **Addresses** server list.
5. Click **Apply**.
   ➔ Your settings will be saved.

25.13.2 Configuring a monitor as a display monitor

The display monitor displays live images.

Fig. 182 Multi-monitor tab – Configuration of the display monitor

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Display monitor**.
3. Mark the checkboxes of the SISTORE MX NVS servers whose live images are to be displayed on the display monitor in the **Addresses** server list.
4. Click **Apply**.
   ➔ Your settings will be saved.

25.13.3 Configuring a monitor as an event monitor

The event monitor displays events. An event can be either a movement or an alarm.

When an event monitor has been configured, it is no longer possible to display events on the main monitor.

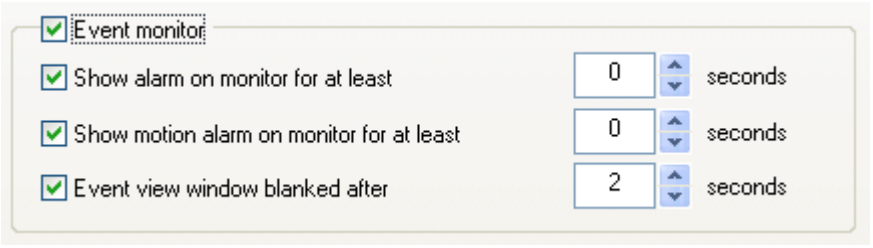


Fig. 183 Multi-monitor tab – Configuration of the event monitor

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Event monitor**.
3. Mark the corresponding checkboxes and enter the duration in seconds:

Option	Meaning
Show alarm on monitor for at least … seconds	Minimum time for which an alarm event will be displayed. New alarm events will not be displayed during this time. You can select a time between 0 and 60 seconds. 0 seconds means that an image will be removed from the screen as soon as another alarm event occurs.
Show motion alarm on monitor for at least … seconds	Minimum time for which a motion alarm event will be displayed. New motion alarm events will not be displayed during this time. You can select a time between 0 and 60 seconds. 0 seconds means that an image will be removed from the screen as soon as another motion alarm event occurs.
Event view window blanked after … seconds	Period of time after which the event view window will be blanked. You can select a time between 2 and 300 seconds.

4. Mark the checkboxes of the SISTORE MX NVS servers whose event images are to be displayed on the event monitor in the **Addresses** server list.
5. Click **Apply**.
   ➔ Your settings will be saved.

25.13.4 Configuring a monitor as a site plan monitor

On a site plan monitor, the site plan is displayed in full screen mode.

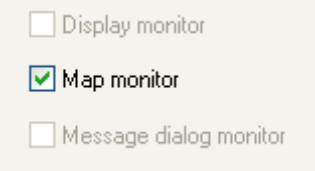


Fig. 184 Multi-monitor tab – Configuration of the site plan monitor

Prerequisite:
- A site plan has been configured. See Section 25.12 Configuring the map.
- A site plan monitor has not been configured yet.

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Map monitor**.
3. Click **Apply**.
➔ The setting will be saved.

25.13.5 Configuring a monitor as a message dialog monitor

The message dialog monitor displays all pop-up dialogs. The main monitor can also be configured as a message dialog monitor.

IMPORTANT Exactly 1 monitor must be configured as a message dialog monitor.

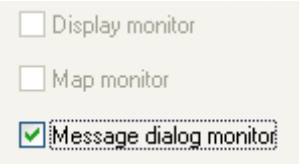


Fig. 185 Multi-monitor tab – Configuration of the message dialog monitor

Prerequisite:
- A message dialog monitor has not been configured yet.

1. Select the **Multi-monitor** tab.
2. Mark the checkbox **Message dialog monitor**.
3. Click **Apply**.
➔ The setting will be saved.

25.14 Configuring user management

There are 2 user groups in SISTORE RemoteView:

- **Administrator**: An administrator has the user right **Configuration** for SISTORE RemoteView as well as the user right **Re-Play (offline evaluation)** for local evaluation of databases. Further information on this can be found in the SISTORE MX NVS User Manual.
- **User**: A user does not have the user rights **Configuration** and **Re-Play (offline evaluation**).

"Users“ need 2 user accounts: 1 account for the SISTORE MX NVS application software and 1 account for SISTORE RemoteView. If you create two accounts with identical user names and passwords the user will have to log on only once (as of V2.80).
User rights must be assigned in the SISTORE MX NVS application software. See Section 13 Configuring user and access management. The user right **Configuration** is assigned separately for SISTORE MX and SISTORE RemoteView; this means that a user who has been granted the right **Configuration** in the SISTORE MX NVS application software does not automatically have this right for SISTORE RemoteView as well.

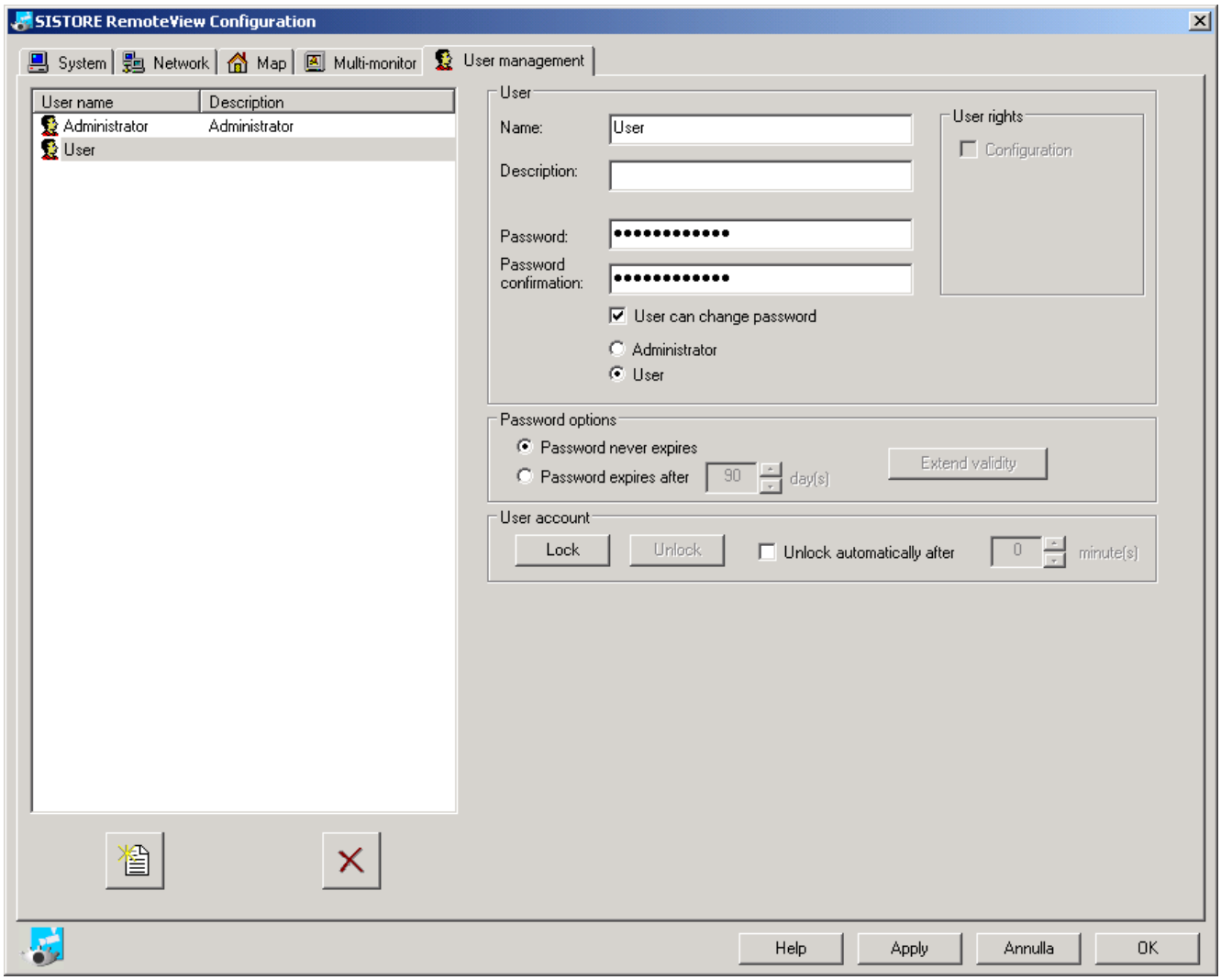


Fig. 186 SISTORE RemoteView – User management tab

25.14.1 Predefined user account Administrator

Only use the user account Administrator if it is necessary!

The software is delivered with the user account Administrator already set up. The password assigned to it is "Administrator“. **Change the password** after initial start-up.
This user account cannot be deleted and it can be configured only to a limited extent.

- Administrator: has all rights

Users who have only basic knowledge of SISTORE MX should only use user accounts.

25.14.2 Creating and changing user accounts

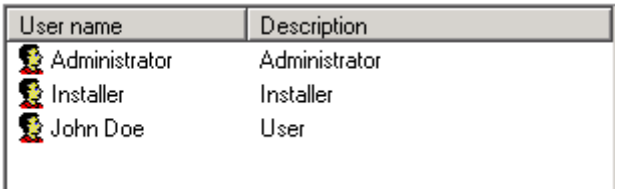


Fig. 187 User account list on the User management tab

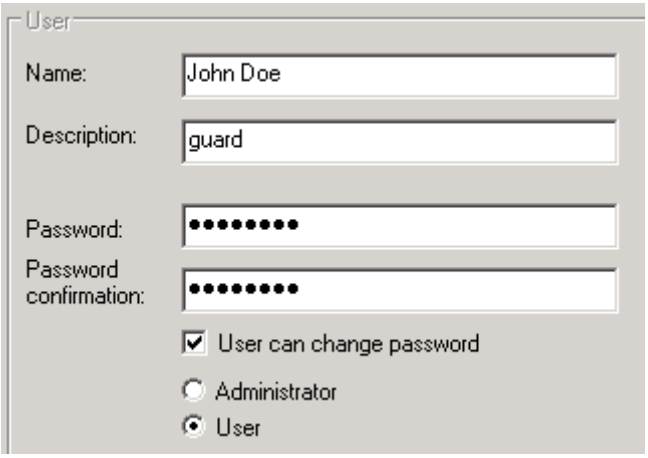


Fig. 188 User group field on the user management tab

Prerequisite:

- You have the right Configuration.

1. Select the **User management** tab.
2. Click the **Add** button below the user account list.
   ➔ A new line will be added to the user account list.

If the text fields **Name**, **Password** and **Password confirmation** are not filled in completely or no user rights have been assigned, an error message will be displayed.

3. Enter a name for the user account in the **Name** text field.
4. Enter a short description in the **Description** text field.
5. Enter a password with at least eight characters in the **Password** text field.
6. Re-enter the password in the **Password confirmation** text field.
7. If users who are logged in to this account may change the password, mark the checkbox **User can change password**.

8. To assign the user to a user group, select on of the options **Administrator** or **User**.
9. Click **Apply**.
   ➔ Your settings will be saved.

25.14.3 Deleting user accounts

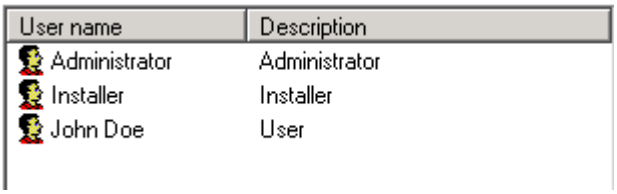


Fig. 189 User account list on the User management tab

The user account “Administrator“ cannot be deleted.

Prerequisite:
- You have the right Configuration.

1. Select the **User management** tab.
2. Select the user account you want to delete in the list.
3. Click the button **Delete** .
4. Answer **Yes** in the confirmation dialog.
   ➔ The user account will be deleted from the user account list.

25.14.4 Locking user accounts

After a password is enter incorrectly three times, the user account will be blocked. To unlock: See Section 25.14.5 Unlocking a user account.

Fig. 190 Lock button on the User management tab

Prerequisite:
- You have the right Configuration.

1. Select the **User management** tab.
2. Select the user account you want to lock from the user account list.
3. Click **Lock**.
4. Click **Apply**.
   ➔ The setting will be saved.
   ➔ The user account is locked.

25.14.5 Unlocking a user account

You can unlock a user account manually or automatically.
Prerequisite:
- You have the right Configuration.

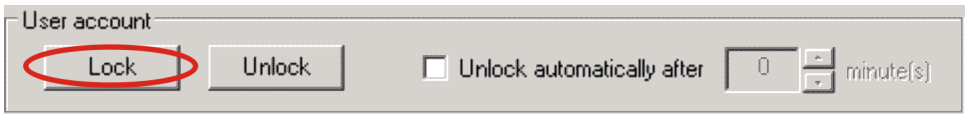


Fig. 191 User account group field on the User management tab

Manually unlocking a user account
1. Select the **User management** tab.
2. Select the user account you want to unlock from the user account list.
3. Click **Unlock**.
4. Click **Apply**.
   ➔ The setting will be saved.
   ➔ The user account is unlocked.

Automatically unlocking a user account
1. Select the **User management** tab.
2. Select the user account you want to unlock automatically from the user account list.
3. Mark the checkbox **Unlock automatically after**.
4. Enter a value in minutes in the **minute(s)** text field.
5. Click **Apply**.
   ➔ The setting will be saved.
   ➔ The user account will be unblocked after the time entered has passed.

25.14.6 Configuring the validity period of a password

Prerequisite:
- You have the right Configuration.

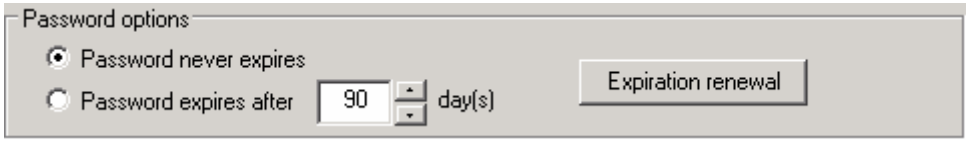


Fig. 192 Password options group field on the User management tab

Limiting the validity period of a password
1. Select the **User management** tab.
2. Select the option **Password expires after**.
3. Enter a value in the **day(s)** field to indicate how many days the password is to be valid.
4. Click **Apply**.
   ➔ The setting will be saved.

Extending the validity period of a password
1. Select the **User management** tab.
2. Click **Expiration renewal**.
3. Click **Apply**.
   ➔ The validity of the password will be extended by the number of days specified in the **day(s)** text field. The date from which the extension is calculated is the current one.

Removing the restriction of validity of a password

1. Select the **User management** tab.
2. Select the option **Password never expires**.
3. Click **Apply**.
➔ The setting will be saved.

25.14.7 Enabling control panel control

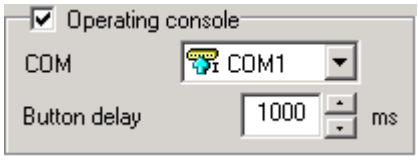


Fig. 193 "Operating console“ group field on the "System“ tab

Prerequisites:

- The CKA driver is installed and the icon is displayed in the task bar. For information on the subsequent installation of hardware drivers please refer to the Installation Manual.
- A control panel is connected to the client PC.

1. Select the **System** tab.
2. Mark the checkbox **Operating console**.
➔ The **Operating console** group field will be enabled.
3. Select the interface to which your operating panel is connected from the **COM** dropdown field.
4. Enter a value in milliseconds in the **Button delay** text field.
➔ If no keyboard input takes place within the specified time, the entry is considered complete.
5. Click **Apply**.
➔ Your settings will be saved.

25.15 Configuring SISTORE MX NVS via SISTORE RemoteView

SISTORE RemoteView can be used for remote configuration of a SISTORE MX server. This function corresponds to the function for importing a configuration, except that a configuration file is sent by remote data transfer to the server.

Transmission errors should be detected by a checksum contained by the configuration file. If the checksum is incorrect, the configuration will not be imported.

For changes to the configuration the same dialogs are used as in the SISTORE MX NVS application software.
The functions of the dialogs and dialog elements are therefore the same.
The following limitations apply in this regard:

- It is not possible to display motion detection.
- Recording media (hard drive partitions) cannot be changed.
- A database directory cannot be specified.
- The language version cannot be changed.
- The option "Always in foreground" cannot be changed.
- The option "On-screen keyboard" cannot be changed.
- Network parameters cannot be changed.

Prerequisite:

- The SISTORE MX NVS application software is in display mode. See Section 4.1.1 Display mode.

Banking mode, cash dispenser mode and the recording media cannot be activated/deactivated via SISTORE RemoteView.

You have two options to configure a SISTORE MX server:

- Option A: online, i.e. transmission of the configuration, changing of the configuration, loading of the configuration, starting of the configuration on the server.
  – OR –
- Option B: offline, i.e. an existing configuration is edited without a connection to the server, then a connection is established and the configuration is sent to the server.

25.15.1 Online configuration (option A)

1. Set up a connection to the server. See Section 25.9.4 Connecting to SISTORE MX NVS.
2. Select **Configuration …** in the **Administration** menu (see Figure below).

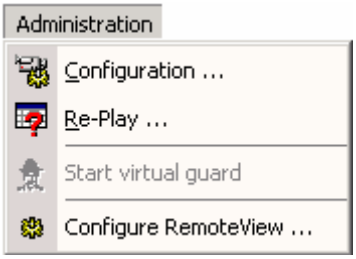


Fig. 194 SISTORE RemoteView – Administration menu

3. Answer **Yes** in the confirmation dialog.

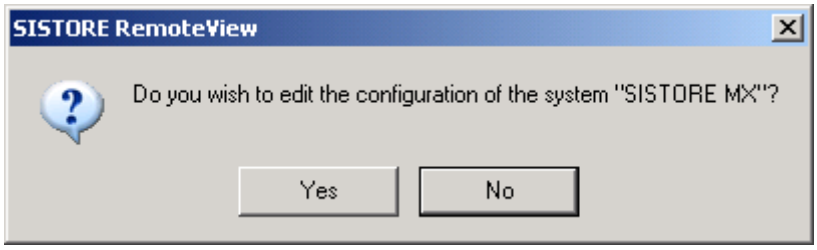


Fig. 195 SISTORE RemoteView – configuration option for the server

➔ The configuration file will be transferred from the server and saved in the download directory.
➔ SISTORE RemoteView will switch to configuration mode.
➔ The file will be opened automatically.

4. Change the configuration.
5. Click **Apply**.
6. Answer **Yes** in the confirmation dialog.

Fig. 196 SISTORE RemoteView – sending the server configuration

➔ The transmission will be performed.
➔ After receiving the configuration, the server will import and apply it.

Recording will be stopped for a few seconds. The connection to RemoteView will be terminated.

7. Check whether the server is recording again and everything is running properly.
➔ The transfer of a new configuration is recorded as information in the server's logbook. The logbook will also indicate whether the server has accepted and applied the new configuration.

- If a configuration contains more cameras than are available on the recording system, only the first cameras of the configuration will be applied. All further cameras will be ignored.
- This also applies for objects that are in a configuration but are not physically present in the recording system.
- Settings which cannot be configured remotely, such as recording drives, network settings or deleting or adding LAN cameras, will not be applied by the server from the new configuration. For these parameters the existing settings will continue to be used. This is to avoid malfunctions.

A malfunctions may result in a server restart triggered by the Watchdog. The malfunction will possibly be corrected by the restart.

Restarting the server manually via SISTORE RemoteView

If the server can be reached by remote data transfer, it can be restarted via the SISTORE RemoteView application software.

1. Select **Restart system** from the **Action** menu.

25.15.2 Offline configuration (option B)

1. Select **Receive configuration** from the **File** menu.

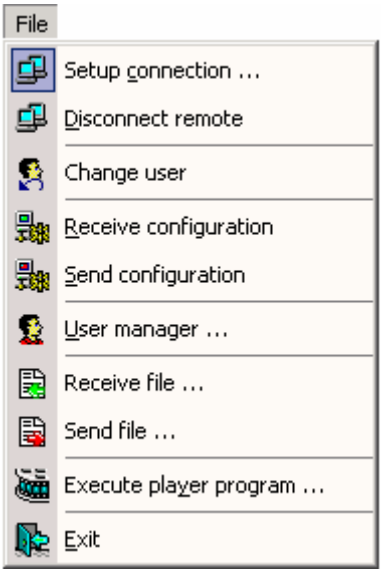


Fig. 197 SISTORE RemoteView: File menu

➔ The SISTORE RemoteView application software receives a copy of the configuration from the SISTORE MX server

2. Edit the configuration. A remote data transfer connection is not required for this.

3. Select **Send configuration** from the **File** menu.

➔ You can select a file and send it to the SISTORE MX server.

25.15.3 Defining the detection area (mask)

Prerequisite:

- The SISTORE MX NVS application software is in display mode. See Section 4.1.1 Display mode.

1. Set up a connection to the server. See Section 25.9.4 Connecting to SISTORE MX NVS.

2. Select **Configuration...** in the **Administration** menu.

3. You can generate and change the detection area of cameras via remote configuration. The drawing of the detection area is performed as in the SISTORE MX NVS application software. See Section 8.3.2 Defining the detection area (mask).

- The **pencil** drawing tool is not available.
- If the camera is not in operation, the mask will be shown in a gray window. You can still draw the mask, but this leads to a very inexact result.

25.15.4 Setting image quality

Prerequisite:

- The SISTORE MX NVS application software is in display mode. See Section 4.1.1 Display mode.

1. Set up a connection to the server. See Section 25.9.4 Connecting to SISTORE MX NVS.
2. Select **Configuration...** in the Administration menu.
3. You can generate and change the image quality of the cameras via remote configuration.

- If you have not selected an image quality, the default quality (LAN) of the system will be used.
- There is no feedback from the system regarding detected motions (graphics, audio signals, signal lamp).

25.15.5 Changing user data

Prerequisites:

- The SISTORE MX NVS application software is in display mode. See Section 4.1.1 Display mode.
- You have the user rights configuration, remote access and user administration.

1. Set up a connection to the server. See Section 25.9.4 Connecting to SISTORE MX NVS.
2. Select **Configuration...** in the Administration menu.

You can change user data via remote configuration. However, for security reasons, this is only possible with Option A (online).
See Section 25.15 Configuring SISTORE MX NVS via SISTORE RemoteView.
The procedure is similar to that with the SISTORE MX server. The changed user data are transmitted to the SISTORE MX server when the user administration dialogs are closed.

25.16 Virtual guard

25.16.1 Starting and terminating the virtual guard

Starting the virtual guard

There are several possibilities to start the virtual guard:

Using the mouse:

1. Click the button **Start virtual guard** in the toolbar.

– OR –

Select **Start virtual guard** in the **Administration** menu.

Using the command line:

2. Enter the following command in the command line: -vguard

– OR –

Enter the following command in the command line: SistoreRemoteView.exe –vguard

While the virtual guard is running in SISTORE RemoteView, it is not possible to establish a connection to the RemoteView client if an alarm occurs.

Terminating the virtual guard

You have two options to end the virtual guard:

1. Click the button in the toolbar.

– OR –

Select the menu sequence **Administration > Terminate virtual guard**.

Logging on to the server

A log-in on the server takes place automatically. The user rights for this automatic log-in, however, are very restricted. Replay and configuration are not possible.

If you wish to reach further rights:

1. Click **Login** .

➔ The **SISTORE RemoteView Login** dialog box will open.

2. Enter another user name in the **User name** text field.

3. Enter the appropriate password in the **Password** field.

The virtual guard will be interrupted, i.e. there is no automatic disconnection and reconnection if the user performs such an action.

25.16.2 Configuring the virtual guard

The virtual guard performs the following tasks:

- Time-controlled, automatic connection to various recording systems in a specific order
- Display predefined cameras
- Terminate the connections after a specified time

The connection data are taken from the address book.

Prerequisite:

- The address book contains connection entries. See Section 25.11 Configuring the address book.

1. Select **Connect** from the **File** menu.
➔ The following dialog box opens.

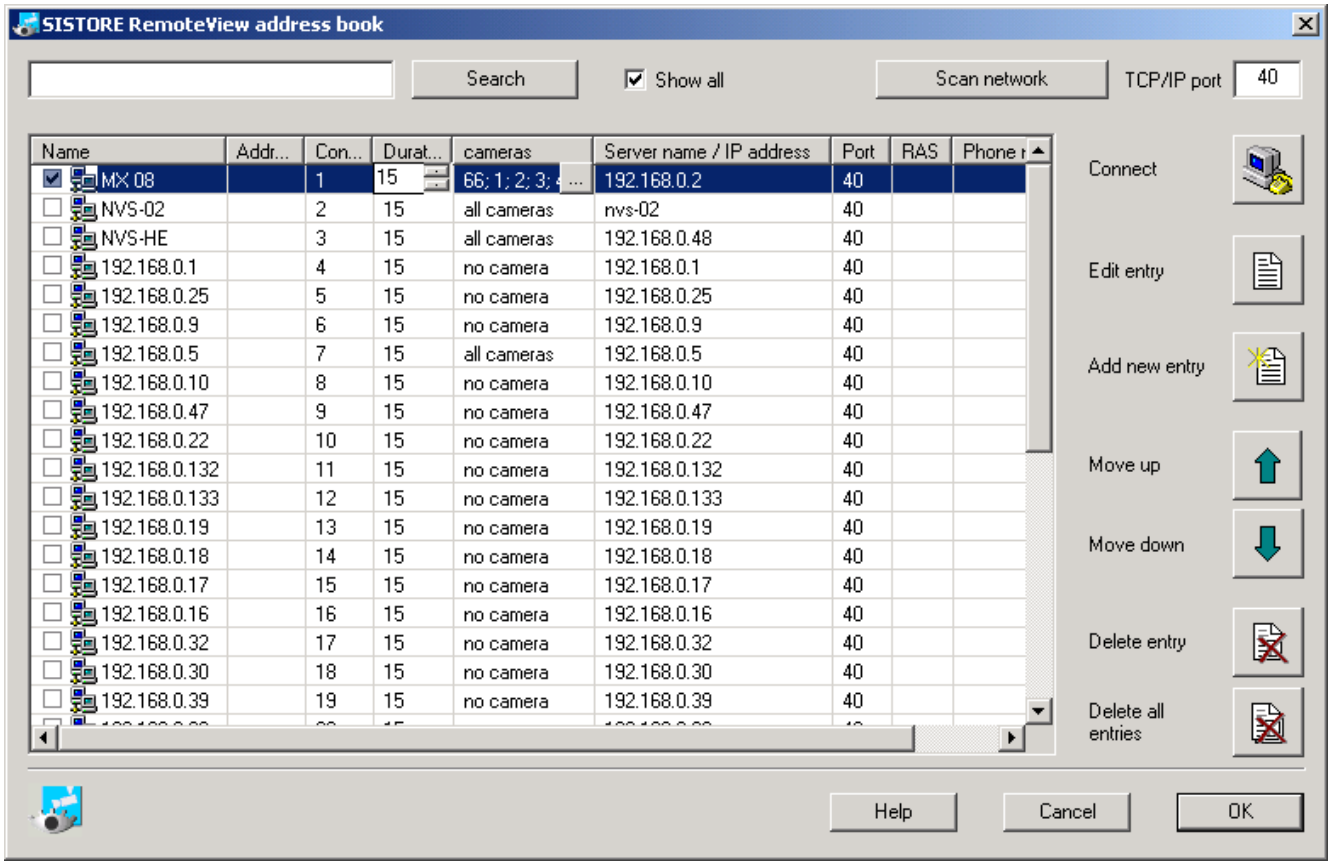


Fig. 198 SISTORE RemoteView address book

2. Mark the checkbox **Show all**.
➔ The fields **Duration** and **Cameras** will be shown.
3. Click the **Add new entry** button.

➔ The following dialog box opens.

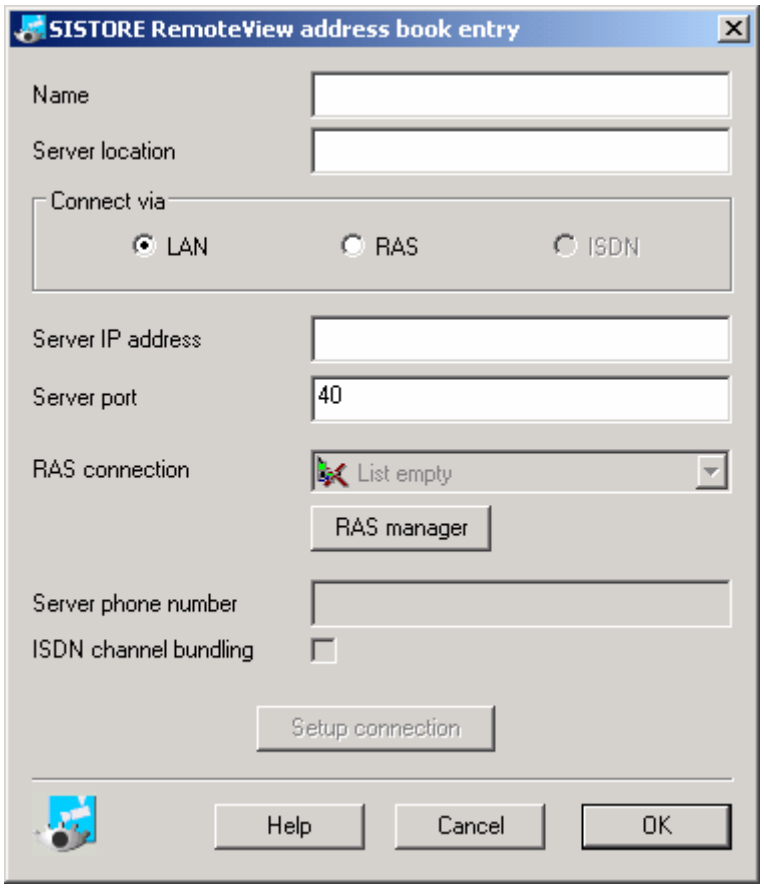


Fig. 199 SISTORE RemoteView address book entry dialog

4. Select one or more connections in the **address book**.
5. Click **OK**.
➔ The address book is closed.
➔ The selected connections will be copied to the guard function and be displayed in the configuration dialog of the virtual guard.
6. Set a connection duration in seconds for each connection.
7. Select the cameras whose live images are to be displayed after a connection has been set up. See Section 25.11.7 Specifying the camera selection.
8. Change the sequence of the connections using the buttons **Move up** and **Move down**.

Clicking the button **Delete all entries** deletes all entries from the address book.

25.17 File transfer

Using the **file transfer** function you can transfer files from the server to SISTORE RemoteView and vice versa.

Prerequisite:
- There is a connection to a version 2.70 or higher server.

Sending files

1. Select **Send file** in the **File** menu.
➔ The following dialog box opens.

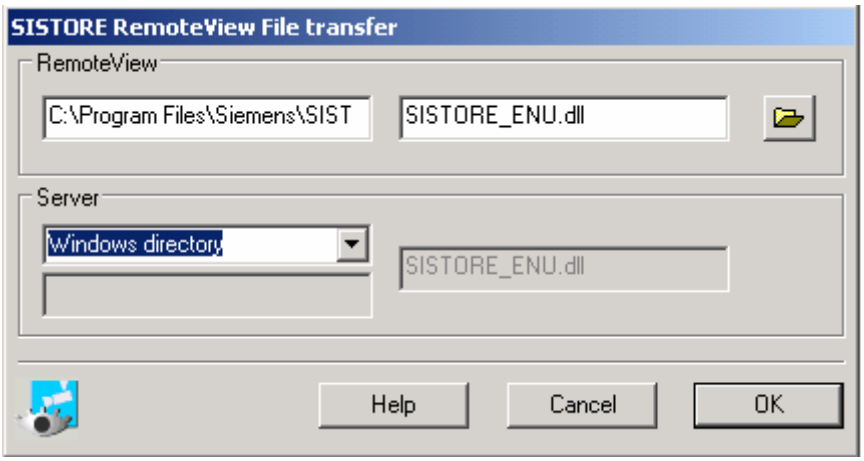


Fig. 200 SISTORE RemoteView file transfer window

2. In the **RemoteView** group field, select the file you want to send.
3. Select the target directory in the **Server** group field.
4. Enter the file name in the text field in the **Server** group field.

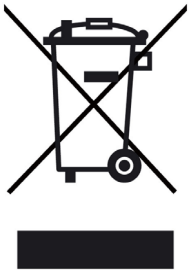
- The name of the target file must match the name of the source file.
- File transfer is only possible if the selected directory exists on the server and the file to transfer is not opened. Thus the file **SISTORE.exe** cannot be transferred, for example.

5. Click **OK**.

Receiving files

1. Select the menu sequence **File** > **Receive file...**.
➔ The **file transfer** window will open.
2. In the **RemoteView** group field, select the file you want to receive.
3. Select the source directory in the **Server** group field.
4. Click **OK**.

26 Disposal



All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
If this symbol showing a crossed-out trash can is displayed on a product, that product is subject to the EU Directive 2002/96/EC.
The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

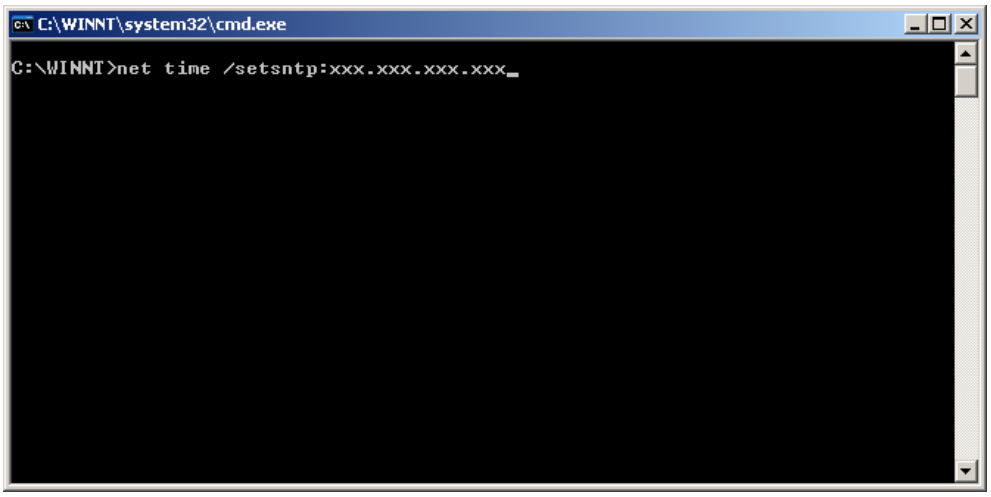
27 Appendix

27.1 Configuration of Windows system settings

27.1.1 Synchronizing the time with an NTP server

An NTP Server always provides the current time. This is a periodic synchronization mode, i.e. the time is updated at regular intervals. In order to synchronize the time of the SISTORE MX or client PC with an NTP server, the IP address of the NTP server must be specified.

1. In the Windows Start menu, select **Programs > Accessories > Command Prompt**.
   ➔ The **Command Prompt** window opens.

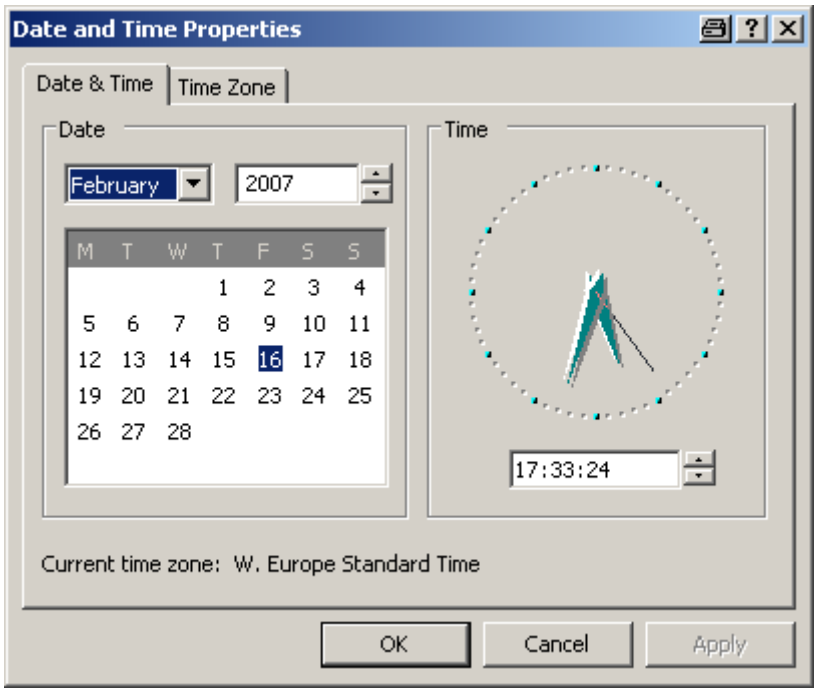


1. Enter the following command in the command prompt window:
   net time /setsntp:xxx.xxx.xxx.xxx (in place of "xxx.xxx.xxx.xxx" enter the IP address of the NTP server.)
2. Restart the SISTORE MX or enter the following command at the input prompt of the SISTORE:
   net stop w32time
   net start w32time

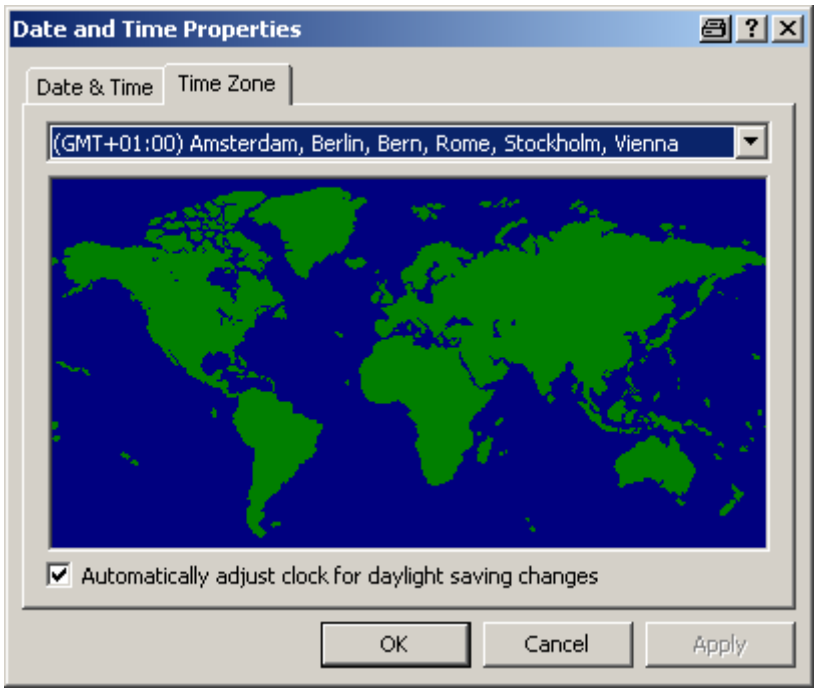
NOTE:
The IP address of an appropriate server can be found in the Internet or you can contact your system administrator.

27.1.2 Setting the time zone

1. Click the Windows **Start** menu.
2. Select **Settings** -> **Control Panel**.
   ➔ The **Control Panel** window will open.
3. Click **Date and Time**.
   ➔ The **Date and Time Properties** window opens.



4. Select the **Time Zone** tab.



5. Select the desired time zone.
6. Mark the checkbox **Automatically adjust clock for daylight saving changes**.

7. Click **Apply**.
8. Click **OK**.
➔ The settings have been saved.

27.2 Video formats supported

The image files created by SISTORE MX NVS have the file extension ".k26" or ".avi", depending on the setting. These are files in a format similar to AVI, though the k26 files can only be viewed with the SISTORE Player. The AVI files can be played back with any ordinary media player if an appropriate CODEC is installed in the operating system.
The recordings have a resolution of 352 x 288 pixels (for normal picture quality), 704 x 288 pixels (for high picture quality), and 704 x 576 pixels (4CIF) for maximum picture quality (SISTORE MX 3G only).

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